

RIGHT OF ENTRY - Site ID # 05289

I, H.A. TORRES, JR, certify that I am the legal owner/authorized representative for H.A. TORRES, JR (owner) of the property at 721 N Hwy 17 Ridgeland. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

One well will be installed at the referenced facility for the purpose of collecting a ground-water quality sample for analysis. I understand that this well will be a permanent fixture of the property until assessment and/or cleanup activities are completed. I understand that these are necessary measures to determine the degree of risk the contamination reportedly existing at this property poses to the general public. Additionally, I understand that SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please Print) : H. A. TORRES, JR.

SIGNATURE : H.A. Torres, Jr.

WITNESS : C. A. Floyd

DATE : May Month 16 Day 95 Year

Division  
Groundwater Protection  
22 1995

 **Midlands  
Environmental  
Consultants, Inc.**

November 9, 2015

Mr. John Bryant, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
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: Site-Specific Work Plan  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 15-5344  
Certified Site Rehabilitation Contractor UCC-0009

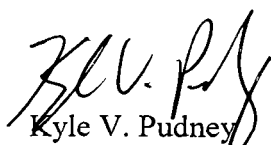
Dear Mr. Bryant,

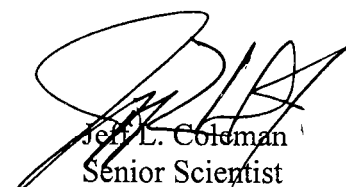
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On November 4, 2015 MECI personnel performed a site visit to the subject site 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.**

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist



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

To: Mr. John Bryant (SCDHEC Project Manager)  
 From: Mr. Jeff Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Burnette's Service Station UST Permit #: 05289  
 Facility Address: 11577 N Jacob Smart Boulevard, Ridgeland, SC 29936  
 Responsible Party: Fate Burnette, Sr. Phone: 803-726-5098  
 RP Address: P.O. Box 1908, Ridgeland, SC 29936  
 Property Owner (if different): N/A  
 Property Owner Address: N/A  
 Current Use of Property: Active Gas Station / Active Car Repair Shop

**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                      4 Water Supply Wells                      \_\_\_\_\_ Air                      1 Field Blank  
24 Monitoring Wells                      5 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: \_\_\_\_\_ 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 #: 05289 Facility Name: Burnette's Service Station

**Implementation Schedule** (Number of calendar days from approval)  
Field Work Start-Up: 11/23/2015 Field Work Completion: 12/23/2015  
Report Submittal: 01/23/16 # 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: 200.0 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
-During the November 4, 2015 site visit, all monitoring wells were located and found to be in good condition.  
-MECI personnel was denied access for WSW-4. During the sampling event, MECI will attempt to sample the well if it is possible to get the homeowner's approval.  
-Per SCDHEC instructions, all wells will be purged prior to sample collection.  
\_\_\_\_\_  
\_\_\_\_\_

**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 ACQAO? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_  
Yes Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
North Arrow Proposed monitoring well locations  
Location of property lines Legend with facility name and address, UST permit number, and bar scale  
Location of buildings Streets or highways (indicate names and numbers)  
Previous soil sampling locations Location of all present and former ASTs and USTs  
Previous monitoring well locations Location of all potential receptors  
Proposed soil boring locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT INVOICE**

**SOUTH CAROLINA**

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

**CONTRACT PO NUMBER 4600328425**

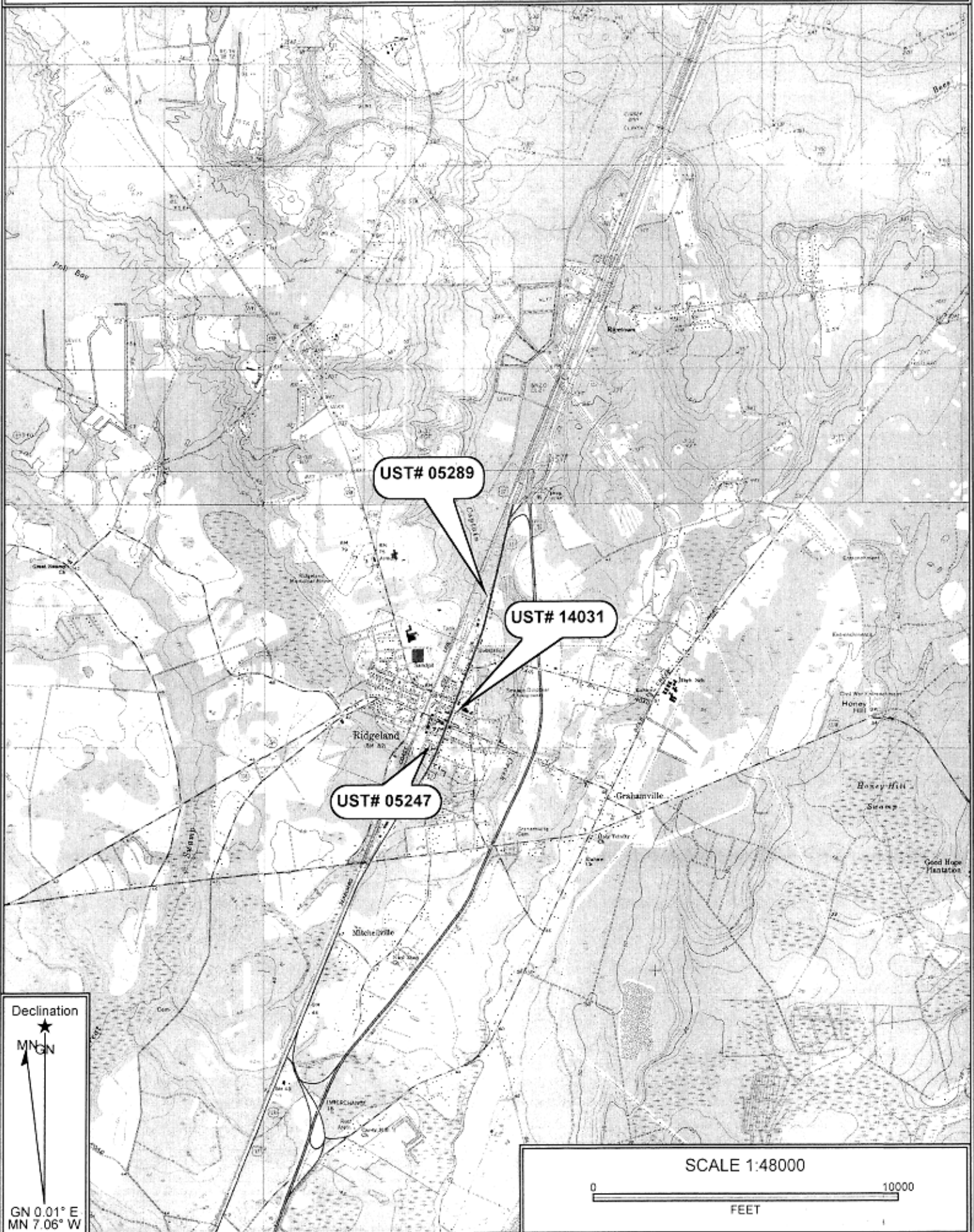
Facility Name: Burnette's Service Station

UST Permit #: 05289

Cost Agreement #:

Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$0.00	\$0.00
C1. QAPP Appendix B		each	\$0.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$0.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$350.00	\$700.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	24	per well	\$16.00	\$384.00
B1. Air or Vapors		samples	\$0.00	\$0.00
C1. Water Supply	9	samples	\$5.00	\$45.00
D1. Groundwater No Purge		per well	\$8.00	\$0.00
E1. Gauge Well only		per well	\$0.00	\$0.00
F1. Sample Below Product		per well	\$0.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	1	each	\$10.00	\$10.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	200	gallons	\$1.00	\$200.00
BB. Free Product		gallons	\$0.00	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>		each	\$0.00	\$0.00
<b>18. Miscellaneous (attach receipts)</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Trip Blank	1	each	\$10.00	\$10.00
Data Table		each	\$25.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$75.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$75.00	\$0.00
D1. Replace Well Vault		each	\$75.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,349.00</b>



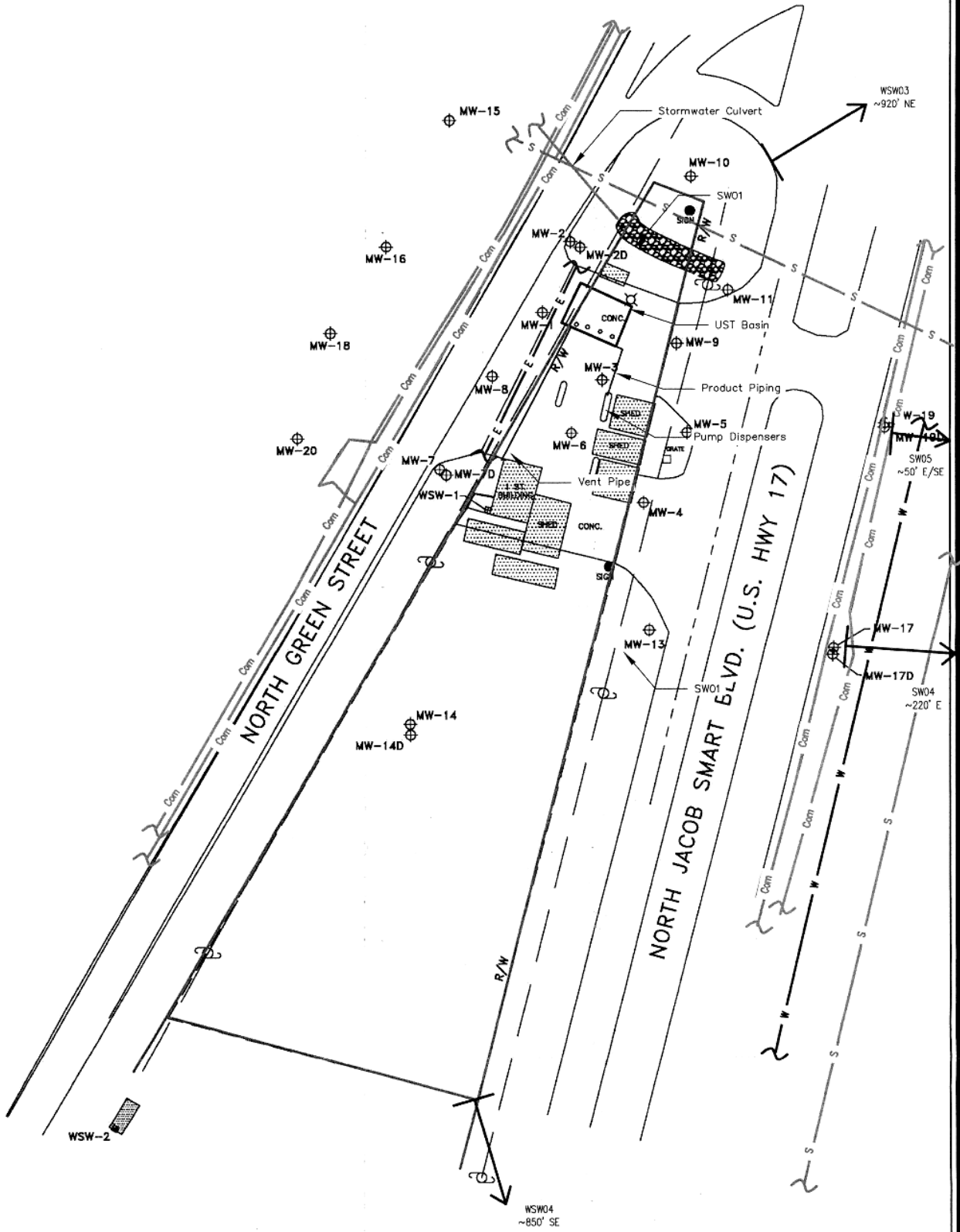
Declination



GN 0.01° E  
MN 7.06° W

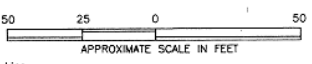
SCALE 1:48000





REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- Groundwater Monitoring Well
- Approximate Location of Underground Electric Line
- Approximate Location of Underground Communication (Cable/Phone) Line
- Approximate Location of Underground Water Line
- Approximate Location of Underground Gas Line
- Approximate Location of Underground Sewer/Stormwater Line
- Approximate Property Boundary



Title	Site Base Map	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	02/25/2015	 <small>ENVIRONMENTAL, LTD.</small> <small>ENGINEERS &amp; CONSULTANTS</small>
Job No.	J14-060-A	
Figure No.	3	



Catherine E. Heigel, Director

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



**BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**

**NOV 19 2015**

**Re: Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation # IFB-5400007403, PO#4600445246  
Burnettes Service Station, 11577 North Jacob Smart Blvd, Ridgeland, SC  
UST Permit #05289; CA #51358 (Pace CA #51359)  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved ACQAP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone 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 UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. The Agency 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. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

**Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to John Bryant, the contract manager.



If you have any site-specific questions, please contact me at (803) 898-0606 or via e-mail at bryantjc@dhec.sc.gov. If you have any contract specific questions, please contact John Bryant at (803) 898-0606 or via e-mail at bryantjc@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'JCB', is positioned above the typed name.

John C. Bryant, Hydrogeologist  
Assessment/Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: John Bryant, Corrective Action Section, UST Management Division (w/o encs.)  
Trey Carter, Pace Analytical Services, 9800 Kincey Ave, Ste 100, Huntersville, NC, 28078 (w/  
approved CA)  
Technical Files (w/encs.)

# Approved Cost Agreement 51359

Facility 05289 BURNETTES SERVICE STATION

BRYANTJC

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	37 0000	19 00	703 00
		F1 EDB BY 8011	36 0000	18 00	648 00
			<b>Total Amount</b>		1,351 00

# Approved Cost Agreement 51358

Facility 05289 BURNETTES SERVICE STATION

BRYANTJC

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		B1 PERSONNEL	2 0000	350 00	700 00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	24 0000	16 00	384 00
		C1 WATER SUPPLY	9 0000	5 00	45 00
		H1 FIELD BLANK	1 0000	10 00	10 00
17 DISPOSAL		AA WASTEWATER	250 0000	1 00	250 00
18 MISCELLANEOUS		SITE SPECIFIC WORK PLAN	1 0000	0 00	0 00
		TRIP BLANK	1 0000	10 00	10 00
<b>Total Amount</b>					1,399.00

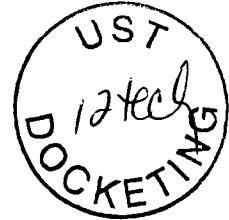


# Midlands Environmental Consultants, Inc.



December 15, 2015

Mr. John C. Bryant, 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  
Burnette's Service Station  
11577 North Jacob Smart Blvd  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289, CA #51358  
MECI Project Number 15-5344  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Bryant,

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).

## PROJECT INFORMATION

The subject site (Burnette's Service Station) is located at 11577 North Jacob Smart Blvd, Ridgeland, Jasper County, South Carolina. The subject site formerly maintained two 4,000 gasoline underground storage tanks (UST's), one 6,000 gallon gasoline UST, and one 3,000 gallon diesel UST. These USTs were reportedly abandoned at an unknown date. The South Carolina Department of Health and Environmental Control (SCDHEC) reported a release of petroleum product in December of 1991 and confirmed the release of petroleum in March of 1992. The subject site is currently rated a Class 2AB.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

## MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On December 9, 2015, MECI personnel collected groundwater samples from twenty-three (23) monitoring wells, five (5) surface waters, and three (3) water supply wells at the subject site. One (1) monitoring well (MW-6) was gauged and determined to contain measurable free-phase petroleum product. Based on a request by SCDHEC personnel, all wells were purged prior to sampling. Twenty-three (23) monitoring wells were purged prior to sampling.

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. Purging was completed by bailing at least five well volumes of water from the well, or until 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 YSIPro20 meter for DO (mg/L) and temperature readings (°C) and YSI Pro 1030 meters for pH and conductivity (uS) readings and a MicroTPI/TPW 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 of 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:

Monitoring Well	Purge	No Purge	Not Located	Abandoned	No Access	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Nitrate (EPA Method 335.2)	Methane (RSK Method)
Analyte Sampled													
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-2D	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
MW-6						X							
MW-7	X						X	X	X	X			
MW-7D	X						X	X	X	X			
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
MW-11	X						X	X	X	X			
MW-13	X						X	X	X	X			
MW-14	X						X	X	X	X			
MW-14D	X						X	X	X	X			
MW-15	X						X	X	X	X			
MW-16	X						X	X	X	X			
MW-17	X						X	X	X	X			
MW-17D	X						X	X	X	X			
MW-18	X						X	X	X	X			
MW-19	X						X	X	X	X			

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane PAH = polycyclic aromatic hydrocarbons


Monitoring Well	Purge	No Purge	Not Sampled	Abandoned	No Access	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Nitrate (EPA Method 335.2)	Methane (RSK Method)
Analyte Sampled													
MW-19D	X						X	X	X	X			
MW-20	X						X	X	X	X			
SW-1	X						X	X	X	X			
SW-2	X						X	X	X	X			
SW-3	X						X	X	X	X			
SW-4	X						X	X	X	X			
SW-5	X						X	X	X	X			
WSW-1							X	X	X	X			
WSW-2			X										
WSW-3							X	X	X	X			
WSW-4							X	X	X	X			
MW-3 Dup.							X	X	X	X			
MW-4 Dup.							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			
Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane PAH = polycyclic aromatic hydrocarbons													

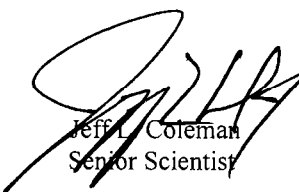
Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 186.5 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,

Midlands Environmental Consultants, Inc.

  
Todd D. Elder  
Staff Hydrogeologist

  
Jeff Coleman  
Senior Scientist

**Contractor Checklist**

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? (For detailed specifics, See MECI's SOP on file with SCDHEC)	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? (For detailed specifics, See MECI's SOP on file with SCDHEC)	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)		X	
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	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		



**Site Activity Summary**

**UCT Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** Jasper  
**Field Personnel:** J. Floyd, P. Wylie, C. Hanson, C. Phillips



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1	Y	12/8/15	12:47	2-12	***	2.11	***	0.83	4.50	Odor
MW-2	Y	12/8/15	13:07	3.68-13.68	***	2.92	***	0.78	5.50	No Odor
MW-2D	Y	12/8/15	13:15	24.80-29.80	***	3.89	***	1.62	13.00	No Odor
MW-3	Y	12/8/15	12:32	3.12-13.12	***	2.77	***	0.76	5.50	Odor; Duplicated
MW-4	Y	12/8/15	12:02	3.59-13.59	***	2.62	***	1.68	5.50	Odor; Duplicated
MW-5	Y	12/8/15	12:20	3.66-13.66	***	1.75	***	1.42	8.00	No Odor
MW-6	N	12/8/15	***	3.29-13.29	2.77	2.82	0.05	***	***	Free-phase product; Not Sampled
MW-7	Y	12/8/15	12:05	3.75-13.75	***	2.59	***	1.01	5.00	No Odor
MW-7D	Y	12/8/15	12:08	27.29-32.29	***	4.36	***	1.61	10.00	No Odor
MW-8	Y	12/8/15	12:17	3.45-13.45	***	2.35	***	2.20	6.50	No Odor
MW-9	Y	12/8/15	11:44	3.76-13.76	***	1.85	***	1.47	7.50	Slight Odor
MW-10	Y	12/8/15	11:41	3.42-13.42	***	1.23	***	0.75	5.00	No Odor
MW-11	Y	12/8/15	12:51	3.65-13.65	***	0.95	***	0.89	9.50	Odor
MW-13	Y	12/8/15	11:49	3.62-13.62	***	1.38	***	0.75	9.00	No Odor
MW-14	Y	12/8/15	11:50	3.72-13.72	***	1.26	***	3.16	7.00	No Odor
									101.50	<b>TOTAL GALLONS PURGED</b>

### Site Activity Summary

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** Jasper  
**Field Personnel:** J. Floyd, P. Wylie, C. Hanson, C. Phillips



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-14D	Y	12/8/15	11:50	18.57-23.57	***	1.67	***	2.91	12.00	No Odor
MW-15	Y	12/8/15	10:33	3.64-13.64	***	0.40	***	1.29	9.00	No Odor
MW-16	Y	12/8/15	10:31	1.85-11.85	***	0.18	***	3.47	8.00	No Odor
MW-17	Y	12/8/15	11:21	3.71-13.71	***	1.91	***	1.00	7.00	No Odor
MW-17D	Y	12/8/15	11:33	25.31-30.31	***	3.72	***	3.34	14.00	No Odor
MW-18	Y	12/8/15	10:42	2.38-12.38	***	0.19	***	3.56	7.00	No Odor
MW-19	Y	12/8/15	11:00	3.80-13.80	***	2.00	***	1.36	9.00	No Odor
MW-19D	Y	12/8/15	11:10	26.94-31.94	***	3.65	***	1.26	12.00	No Odor
MW-20	Y	12/8/15	10:46	3.17-13.17	***	0.22	***	3.13	7.00	No Odor
SW-1	Y	12/8/15	13:21	***	***	***	***	***	***	Taken from ditch
SW-2	Y	12/8/15	13:25	***	***	***	***	***	***	Taken from surface water feature near MW-13
SW-3	Y	12/8/15	13:45	***	***	***	***	***	***	Taken from intermittent stream
SW-4	Y	12/8/15	13:55	***	***	***	***	***	***	Taken from pond
SW-5	Y	12/8/15	13:35	***	***	***	***	***	***	Taken from ditch
WSW-1	Y	12/8/15	13:20	***	***	***	***	***	***	11577 N. Jacob Smart Blvd.
									85.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** Jasper  
**Field Personnel:** J. Floyd, P. Wylie, C. Hanson, C. Phillips



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
WSW-2	N	12/8/15	***	***	***	***	***	***	***	Inoperable
WSW-3	Y	12/8/15	13:35	***	***	***	***	***	***	10754 N. Jacob Smart Blvd.
WSW-4	Y	12/8/15	13:55	***	***	***	***	***	***	No address posted
MW-3 DUP	Y	12/8/15	12:25	***	***	***	***	***	***	Duplicate Sample
MW-4 DUP	Y	12/8/15	11:55	***	***	***	***	***	***	Duplicate Sample
Field Blank	Y	12/8/15	13:20	***	***	***	***	***	***	Field Blank
Trip Blank	Y	12/8/15	13:20	***	***	***	***	***	***	Trip Blank
									0.00	<b>TOTAL GALLONS PURGED</b>

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-1	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	2-12	Total Well Depth (TWD) (ft.):	12
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.11	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	9.89	1 casing volume (CV = LWC x C) (gals.):	1.61	5 casing volumes (5 x CV) (gals.):	8.06

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.61	3.22	4.84	6.45	8.06		
Time (military)	12:40	12:42	12:44	12:46				12:47
PH (s.u.)	6.23	6.10	6.09	6.06				6.02
Specific Conductivity (µS/cm)	380.1	375.9	374.3	372.1				370
Water Temperature (°C)	22.3	22.3	22.0	22.0				21.9
Dissolved Oxygen (mg/L)	0.83	0.84	0.92	0.97				1.02
Turbidity (NTU)	39.72	92.60	107.3	129.6				157.4

#### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	12:47	Duplicate: Y or N	N	If yes, Duplicate Time:	Total Gallons Purged:	4.50
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Notes: Dry @ 4.5 gallons; Odor

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:				Calibration:				
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-2	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.68-13.68	Total Well Depth (TWD) (ft.):		13.68	
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			2.92	Free Product Thickness (ft.):		Not Detected	
Length of water column (LWC = TWD - DGW) (ft.):	10.76	1 casing volume (CV = LWC x C) (gals.):			1.75	5 casing volumes (5 x CV) (gals.):		8.77	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.75	3.51	5.26	7.02	8.77			
Time (military)	13:00	13:02	13:04	13:06				13:07	
PH (s.u.)	6.62	6.55	6.52	5.49				6.47	
Specific Conductivity (µS/cm)	606	607	609	612				615	
Water Temperature (°C)	21.0	21.0	21.0	21.1				21.1	
Dissolved Oxygen (mg/L)	0.78	0.70	0.69	0.66				0.67	
Turbidity (NTU)	11.26	22.64	129.7	162.4				139.4	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	13:07	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	5.50

Notes: Dry @ 5.5 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102678	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-2D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	24.80-29.80	Total Well Depth (TWD) (ft.):	29.8
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	3.89	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	25.91	1 casing volume (CV = LWC x C) (gals.):	4.22	5 casing volumes (5 x CV) (gals.):	21.12

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.22	8.45	12.67	16.89	21.12		
Time (military)	13:02	13:06	13:10	13:14				13:15
PH (s.u.)	6.78	6.77	6.7	6.69				6.67
Specific Conductivity (µS/cm)	444.1	432.6	431	430				428.7
Water Temperature (°C)	22.4	22.3	22.2	22.2				22.0
Dissolved Oxygen (mg/L)	1.62	1.52	1.53	1.57				1.66
Turbidity (NTU)	29.11	192.6	207.3	215.7				122.6

### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	13:15	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	13.00
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Notes: Dry @ 13.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
<b>Meter Name</b>	<b>Serial #:</b>	<b>Calibration:</b>							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-3	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailey	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.12-13.12	Total Well Depth (TWD) (ft.):		13.12	
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			2.79	Free Product Thickness (ft.):		Not Detected	
Length of water column (LWC = TWD - DGW) (ft.):	10.33	1 casing volume (CV = LWC x C) (gals.):			1.68	5 casing volumes (5 x CV) (gals.):		8.42	
<b>Purging Data</b>									
	<i>Initial</i>	<i>1st Vol.</i>	<i>2nd Vol.</i>	<i>3rd Vol.</i>	<i>4th Vol.</i>	<i>5th Vol.</i>	<i>Post</i>	<i>Sampling</i>	
Volume Purged (gallons)	0.00	1.68	3.37	5.05	6.74	8.42			
Time (military)	12:25	12:27	12:29	12:31				12:32	
PH (s.u.)	6.03	5.92	5.91	5.87				5.88	
Specific Conductivity (µS/cm)	235.9	229.7	228	277				226.4	
Water Temperature (°C)	21.9	21.9	21.9	21.4				21.4	
Dissolved Oxygen (mg/L)	0.76	0.70	0.71	0.73				0.77	
Turbidity (NTU)	11.34	26.40	97.80	149.6				152.1	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	12:32	Duplicate: Y or N	Y	If yes, Duplicate Time:	12:25	Total Gallons Purged:	5.50
Notes: <span style="float: right;">Dry @ 5.50 gallons; Odor; Duplicated</span>									

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-4	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652		0.163	Method of Purging/Sample Collection		Baier		
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):		3.59-13.59	Total Well Depth (TWD) (ft.):		13.59		
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):		2.62	Free Product Thickness (ft.):		Not Detected		
Length of water column (LWC = TWD - DGW) (ft.):	10.97	1 casing volume (CV = LWC x C) (gals.):		1.79	5 casing volumes (5 x CV) (gals.):		8.94		
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.79	3.58	5.36	7.15	8.94			
Time (military)	11:55	11:57	11:59	12:01				12:02	
PH (s.u.)	6.47	6.32	6.3	6.29				6.31	
Specific Conductivity (µS/cm)	284.5	270.1	269	267				279.8	
Water Temperature (°C)	22.3	22.0	21.4	21.4				21.3	
Dissolved Oxygen (mg/L)	1.68	1.52	1.54	1.55				1.57	
Turbidity (NTU)	29.62	229.4	229.4	407.6				211.4	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	12:02	Duplicate: Y or N	Y	If yes, Duplicate Time:	11:55	Total Gallons Purged:	5.50
Notes: <span style="float: right;">Dry @ 5.50 gallons; Odor; Duplicated</span>									



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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-5	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailey	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.66-13.66	Total Well Depth (TWD) (ft.):		13.66	
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			1.75	Free Product Thickness (ft.):		Not Detected	
Length of water column (LWC = TWD – DGW) (ft.):	11.91	1 casing volume (CV = LWC x C) (gals.):			1.94	5 casing volumes (5 x CV) (gals.):		9.71	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.94	3.88	5.82	7.77	9.71			
Time (military)	12:11	12:13	12:15	12:17	12:19			12:20	
PH (s.u.)	6.28	6.20	6.19	6.17	6.18			6.21	
Specific Conductivity (µS/cm)	486	492	49	495	497			500	
Water Temperature (°C)	21.7	21.0	21.0	20.9	20.8			20.6	
Dissolved Oxygen (mg/L)	1.42	1.38	1.37	1.34	1.31			1.32	
Turbidity (NTU)	290.2	124.7	199.2	211.4	198.7			182.6	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	12:20	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	8.00
Notes: <span style="float: right;">Dry @ 8.0 gallons</span>									

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Bumettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:	<b>Calibration:</b>							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-6	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.29-13.29	Total Well Depth (TWD) (ft.):		13.29	
Depth to Free Product (DFP) (ft.):	2.77	Depth to Groundwater (DGW) (ft.):			2.82	Free Product Thickness (ft.):		0.05	
Length of water column (LWC = TWD – DGW) (ft.):	10.47	1 casing volume (CV = LWC x C) (gals.):			1.71	5 casing volumes (5 x CV) (gals.):		8.53	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.71	3.41	5.12	6.83	8.53			
Time (military)	PROD								
PH (s.u.)	PROD								
Specific Conductivity (µS/cm)	PROD								
Water Temperature (°C)	PROD								
Dissolved Oxygen (mg/L)	PROD								
Turbidity (NTU)	PROD								
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	NA	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	0.00
Notes: <span style="float: right;">Not sampled-Free phase product detected</span>									

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102676	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-7	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailey
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.75-13.75	Total Well Depth (TWD) (ft.):	13.75
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	2.59	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	11.16	1 casing volume (CV = LWC x C) (gals.):	1.82	5 casing volumes (5 x CV) (gals.):	9.10

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.82	3.64	5.46	7.28	9.10		
Time (military)	11:58	12:00	12:02	12:04				12:05
PH (s.u.)	5.91	5.82	5.8	5.79				5.77
Specific Conductivity (µS/cm)	287	262.4	260.9	259				258
Water Temperature (°C)	21.0	19.0	19.1	19.0				18.9
Dissolved Oxygen (mg/L)	1.01	0.94	0.89	0.84				0.80
Turbidity (NTU)	23.82	42.63	79.50	102.6				147.9

### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	NA	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	5.00
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Notes: \_\_\_\_\_  
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Dry @ 5.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Eumettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-7D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailey
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	27.29-32.29	Total Well Depth (TWD) (ft.):	32.29
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	4.36	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	27.93	1 casing volume (CV = LWC x C) (gals.):	4.55	5 casing volumes (5 x CV) (gals.):	22.76

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.55	9.11	13.66	18.21	22.76		
Time (military)	11:57	12:02	12:06					12:08
PH (s.u.)	6.67	6.59	6.57					6.55
Specific Conductivity (µS/cm)	346.1	340.8	339.4					339
Water Temperature (°C)	22.3	22.3	22.4					22.0
Dissolved Oxygen (mg/L)	1.61	1.59	1.55					1.54
Turbidity (NTU)	11.31	19.88	22.60					27.0

### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	12:08	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	10.00
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Notes: Dry @ 10.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	53

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-8	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.45-13.45	Total Well Depth (TWD) (ft.):	13.45
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	2.35	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	11.1	1 casing volume (CV = LWC x C) (gals.):	1.81	5 casing volumes (5 x CV) (gals.):	9.05

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.81	3.62	5.43	7.24	9.05		
Time (military)	12:10	12:12	12:14	12:16				12:17
PH (s.u.)	6.08	6.00	5.99	5.92				5.9
Specific Conductivity (µS/cm)	469	474	477	480				451
Water Temperature (°C)	21.4	21.4	21.4	21.2				21.2
Dissolved Oxygen (mg/L)	2.2	2.15	2.1	2.09				2.08
Turbidity (NTU)	29.43	52.93	197.8	225.7				200.1

#### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	12:17	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	6.50
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Notes: Dry @ 6.5 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:	<b>Calibration:</b>							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-9	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.76-13.76	Total Well Depth (TWD) (ft.):		13.76	
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):			1.85	Free Product Thickness (ft.):		NA	
Length of water column (LWC = TWD – DGW) (ft.):	11.91	1 casing volume (CV = LWC x C) (gals.):			1.94	5 casing volumes (5 x CV) (gals.):		9.71	
<b>Purging Data</b>									
	<i>Initial</i>	<i>1st Vol.</i>	<i>2nd Vol.</i>	<i>3rd Vol.</i>	<i>4th Vol.</i>	<i>5th Vol.</i>	<i>Post</i>	<i>Sampling</i>	
Volume Purged (gallons)	0.00	1.94	3.88	5.82	7.77	9.71			
Time (military)	11:37	11:39	11:41	11:43				11:44	
PH (s.u.)	5.83	5.79	5.75	5.70				5.69	
Specific Conductivity (µS/cm)	744	754	737	756				755	
Water Temperature (°C)	21.6	21.6	21.6	21.5				21.5	
Dissolved Oxygen (mg/L)	1.47	1.39	1.34	1.30				1.25	
Turbidity (NTU)	18.92	22.74	139.6	204.9				154.7	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:44	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	7.50
Notes: Dry @ 7.5 gallons									

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-10	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.42-13.42	Total Well Depth (TWD) (ft.):	13.42
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	1.23	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	12.19	1 casing volume (CV = LWC x C) (gals.):	1.99	5 casing volumes (5 x CV) (gals.):	9.93

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.99	3.97	5.96	7.95	9.93		
Time (military)	11:35	11:37	11:40					11:41
PH (s.u.)	5.15	5.10	5.09					5.08
Specific Conductivity (µS/cm)	60.7	60.2	59.3					58.4
Water Temperature (°C)	18.9	18.9	18.9					18.8
Dissolved Oxygen (mg/L)	0.75	0.70	0.69					0.68
Turbidity (NTU)	28.34	43.80	72.4					81.80

#### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:41	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	5.00
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Notes: Dry @ 5.0 gallons

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

Date:	12/8/2015	Site ID #:	05299	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-11	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.65-13.65	Total Well Depth (TWD) (ft.):	13.65
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	0.95	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	12.7	1 casing volume (CV = LWC x C) (gals.):	2.07	5 casing volumes (5 x CV) (gals.):	10.35

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.07	4.14	6.21	8.28	10.35		
Time (military)	12:42	12:44	12:46	12:48	12:50			12:51
PH (s.u.)	6.18	5.99	5.92	5.87	5.88			5.88
Specific Conductivity (µS/cm)	725	715	171.0	720	729			722
Water Temperature (°C)	20.3	20.0	19.8	19.7	19.7			19.7
Dissolved Oxygen (mg/L)	0.89	0.88	0.85	0.80	0.80			0.79
Turbidity (NTU)	22.89	49.37	122.6	178.4	211.4			215.9

### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	12:51	Duplicate: Y or N	N	If yes, Duplicate Time:	Total Gallons Purged:	9.50
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Notes: Dry @ 9.5 gallons; Odor

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

Date:	12/8/2015	Site ID #:	052B9	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
Quality Assurance									
Meter Name	Serial #:				Calibration:				
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
Well Information									
Well ID:	MW-13	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Baier	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.62-13.62	Total Well Depth (TWD) (ft.):		13.62	
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):			1.36	Free Product Thickness (ft.):		NA	
Length of water column (LWC = TWD – DGW) (ft.):	12.24	1 casing volume (CV = LWC x C) (gals.):			2.00	5 casing volumes (5 x CV) (gals.):		9.98	
Purging Data									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	2.00	3.99	5.99	7.98	9.98			
Time (military)	11:40	11:42	11:44	11:46	11:48			11:49	
PH (s.u.)	7.42	7.34	7.32	7.29	7.24			7.25	
Specific Conductivity (µS/cm)	444.1	437.8	435.9	435	433.9			433.1	
Water Temperature (°C)	20.3	20.2	20.0	19.9	19.8			19.8	
Dissolved Oxygen (mg/L)	0.75	0.60	0.64	0.65	0.66			0.68	
Turbidity (NTU)	31.02	111.40	172.3	209.6	350.4			225.9	
Sampling Data									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:49	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	9.00

Notes: Dry @ 9.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-14	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.72-13.72	Total Well Depth (TWD) (ft.):	13.72
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	1.26	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	12.46	1 casing volume (CV = LWC x C) (gals.):	2.03	5 casing volumes (5 x CV) (gals.):	10.15

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.03	4.06	6.09	8.12	10.15		
Time (military)	11:42	11:44	11:46	11:48				11:50
PH (s.u.)	7.56	7.57	7.6	2.61				7.6
Specific Conductivity (µS/cm)	584	577	574.0	577				578
Water Temperature (°C)	18.4	18.0	17.9	17.9				17.8
Dissolved Oxygen (mg/L)	3.16	3.10	3.05	3.00				3.99
Turbidity (NTU)	49.80	152.70	297.3	321.7				201.7

### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:50	Duplicate: Y or N	N	If yes, Duplicate Time:	Total Gallons Purged:	7.00
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Notes: \_\_\_\_\_  
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Dry @ 7.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

**Quality Assurance**

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

**Well Information**

Well ID:	MW-14D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.18, 4" well = 0.652	0.183	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	18.57-23.57	Total Well Depth (TWD) (ft.):	23.57
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	1.67	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	21.9	1 casing volume (CV = LWC x C) (gals.):	3.57	5 casing volumes (5 x CV) (gals.):	17.85

**Purging Data**

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	3.57	7.14	10.71	14.28	17.85		
Time (military)	11:41	11:46	11:50	11:54				11:55
PH (s.u.)	7.24	7.14	7.17	7.18				7.20
Specific Conductivity (µS/cm)	399.6	382.6	389.7	381				329.4
Water Temperature (°C)	20.0	19.0	18.7	18.7				18.6
Dissolved Oxygen (mg/L)	2.91	2.80	2.84	2.87				2.88
Turbidity (NTU)	10.81	15.20	31.46	72.81				102.4

**Sampling Data**

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:55	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	12.00
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Notes: Dry @ 12.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-15	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.64-13.64	Total Well Depth (TWD) (ft.):	13.64
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	0.4	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	13.24	1 casing volume (CV = LWC x C) (gals.):	2.16	5 casing volumes (5 x CV) (gals.):	10.79

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.16	4.32	6.47	8.63	10.79		
Time (military)	10:24	10:26	10:28	10:30	10:32			10:33
PH (s.u.)	6.00	55.49	5.45	5.42	5.47			5.51
Specific Conductivity (µS/cm)	129.5	131.6	134.7	135	136.8			140.1
Water Temperature (°C)	17.8	17.8	17.7	17.7	17.5			17.4
Dissolved Oxygen (mg/L)	1.29	1.11	1.2	1.22	1.25			1.30
Turbidity (NTU)	11.47	92.68	111.4	201.6	247.9			315.7

#### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	10:33	Duplicate: Y or N	N	If yes, Duplicate Time:	Total Gallons Purged:	9.00
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Notes: Dry @ 9.0 gallons

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

Date:	12/8/2015	Site ID #:	05269	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:				Calibration:				
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-16	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			1.85-11.85	Total Well Depth (TWD) (ft.):		11.85	
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):			0.18	Free Product Thickness (ft.):		NA	
Length of water column (LWC = TWD – DGW) (ft.):	11.67	1 casing volume (CV = LWC x C) (gals.):			1.90	5 casing volumes (5 x CV) (gals.):		9.51	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.90	3.80	5.71	7.61	9.51			
Time (military)	10:22	10:24	10:26	10:28	10:30			10:31	
PH (s.u.)	5.87	5.71	5.74	5.77	5.80			5.82	
Specific Conductivity (µS/cm)	163.7	179.6	177.4	170	169.4			166.2	
Water Temperature (°C)	16.8	16.4	16.4	16.3	16.2			16.0	
Dissolved Oxygen (mg/L)	3.47	3.51	3.55	3.56	3.59			3.60	
Turbidity (NTU)	15.64	79.83	192.6	257.1	306.2			200.4	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	10:31	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	8.00

Notes: \_\_\_\_\_  
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Dry @ 8.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-17	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.71-13.71	Total Well Depth (TWD) (ft.):	13.71
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	1.91	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	11.8	1 casing volume (CV = LWC x C) (gals.):	1.92	5 casing volumes (5 x CV) (gals.):	9.62

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.92	3.85	5.77	7.69	9.62		
Time (military)	11:14	11:16	11:18	11:20				11:21
PH (s.u.)	6.40	6.29	6.28	6.25				6.23
Specific Conductivity (µS/cm)	452.2	447.8	445.1	444.3				437
Water Temperature (°C)	20.1	19.4	19.3	19.1				18.9
Dissolved Oxygen (mg/L)	1.00	0.94	0.86	0.87				0.92
Turbidity (NTU)	24.68	64.80	107.9	143.8				157.9

### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:21	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	7.00
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Notes: Dry @ 7.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-17D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			25.31-30.31	Total Well Depth (TWD) (ft.):		30.31	
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):			1.91	Free Product Thickness (ft.):		NA	
Length of water column (LWC = TWD – DGW) (ft.):	28.4	1 casing volume (CV = LWC x C) (gals.):			4.63	5 casing volumes (5 x CV) (gals.):		23.15	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	4.63	9.26	13.89	18.52	23.15			
Time (military)	11:17	11:21	11:26	11:31				11:33	
PH (s.u.)	6.79	6.67	6.65	6.62				6.60	
Specific Conductivity (µS/cm)	385.9	380.4	370.1	375.0				375.2	
Water Temperature (°C)	19.2	19.0	18.4	18.3				18.1	
Dissolved Oxygen (mg/L)	3.34	3.30	3.28	3.27				3.29	
Turbidity (NTU)	14.83	49.80	54.76	103.4				113.7	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:33	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	14.00
Notes: <span style="float: right;">Dry @ 14.0 gallons</span>									

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:				<b>Calibration:</b>				
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101446	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-18	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			2.38-12.38	Total Well Depth (TWD) (ft.):		12.38	
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):			0.19	Free Product Thickness (ft.):		NA	
Length of water column (LWC = TWD – DGW) (ft.):	12.19	1 casing volume (CV = LWC x C) (gals.):			1.99	5 casing volumes (5 x CV) (gals.):		9.93	
<b>Purging Data</b>									
	<i>Initial</i>	<i>1st Vol.</i>	<i>2nd Vol.</i>	<i>3rd Vol.</i>	<i>4th Vol.</i>	<i>5th Vol.</i>	<i>Post</i>	<i>Sampling</i>	
Volume Purged (gallons)	0.00	1.99	3.97	5.96	7.95	9.93			
Time (military)	10:35	10:37	10:39	10:41				10:42	
PH (s.u.)	5.79	5.82	5.85	5.89				5.88	
Specific Conductivity (µS/cm)	149	167.9	162.4	161.3				159.1	
Water Temperature (°C)	16.7	16.7	16.7	16.4				16.3	
Dissolved Oxygen (mg/L)	3.56	3.64	3.65	3.70				3.71	
Turbidity (NTU)	67.36	143.9	211.4	306.1				255.4	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	10:42	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	7.00
Notes: <span style="float: right;">Dry @ 7.0 gallons</span>									



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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

**Quality Assurance**

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

**Well Information**

Well ID:	MW-19	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.80-13.80	Total Well Depth (TWD) (ft.):	13.8
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	2	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD – DGW) (ft.):	11.8	1 casing volume (CV = LWC x C) (gals.):	1.92	5 casing volumes (5 x CV) (gals.):	9.62

**Purging Data**

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.92	3.85	5.77	7.69	9.62		
Time (military)	10:50	10:52	10:54	10:56	10:58			11:00
PH (s.u.)	5.98	5.81	5.83	5.84	5.88			5.90
Specific Conductivity (µS/cm)	269.8	251.6	248.1	247.9	247.5			246.9
Water Temperature (°C)	19.6	19.6	19.4	19.3	19.0			19.0
Dissolved Oxygen (mg/L)	1.36	1.33	1.29	1.28	1.28			1.27
Turbidity (NTU)	21.49	56.14	177.9	201.4	278.6			200.4

**Sampling Data**

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:00	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	9.00
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Notes: Dry @ 9.0 gallons

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips		
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63		
<b>Quality Assurance</b>									
Meter Name	Serial #:				Calibration:				
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-19D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			26.94-31.94	Total Well Depth (TWD) (ft.):		31.94	
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):			3.65	Free Product Thickness (ft.):		NA	
Length of water column (LWC = TWD – DGW) (ft.):	28.29	1 casing volume (CV = LWC x C) (gals.):			4.61	5 casing volumes (5 x CV) (gals.):		23.06	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	4.61	9.22	13.83	18.45	23.06			
Time (military)	10:54	10:59	11:03	11:07				11:10	
PH (s.u.)	6.41	6.32	6.29	6.25				6.27	
Specific Conductivity (µS/cm)	372.2	366.4	360.9	359.6				358.4	
Water Temperature (°C)	20.7	20.1	20.1	19.8				19.7	
Dissolved Oxygen (mg/L)	1.26	1.42	1.57	1.55				1.34	
Turbidity (NTU)	7.83	22.98	46.30	107.4				111.6	
<b>Sampling Data</b>									
Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	11:10	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	
Notes: Dry @ 7.0 gallons									

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

Date:	12/8/2015	Site ID #:	05289	Site Name:	Burnettes Service Station	Field Personnel:	J. Floyd, P. Wylie, C. Hanson, C. Phillips
County:	Jasper	Project Manager:	John Bryant	General Weather Conditions:	Cloudy	Ambient Air Temp (°F):	63

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-20	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.17-13.17	Total Well Depth (TWD) (ft.):	13.17
Depth to Free Product (DFP) (ft.):	NA	Depth to Groundwater (DGW) (ft.):	0.22	Free Product Thickness (ft.):	NA
Length of water column (LWC = TWD - DGW) (ft.):	12.95	1 casing volume (CV = LWC x C) (gals.):	2.11	5 casing volumes (5 x CV) (gals.):	10.55

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.11	4.22	6.33	8.44	10.55		
Time (military)	10:39	10:41	10:43	10:45				10:46
PH (s.u.)	5.59	5.44	5.45	5.47				5.51
Specific Conductivity (µS/cm)	172.6	162.4	165.1	166.7				169.4
Water Temperature (°C)	16.9	16.5	16.5	16.4				16.4
Dissolved Oxygen (mg/L)	3.13	2.88	2.85	2.83				2.80
Turbidity (NTU)	14.83	57.82	111.9	201.4				185.6

### Sampling Data

Sampled By:	J. Floyd, P. Wylie, C. Hanson, C. Phillips	Sampling Time:	10:46	Duplicate: Y or N	N	If yes, Duplicate Time:		Total Gallons Purged:	
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Notes: Dry @ 7.0 gallons

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December 15, 2015

Re: Treatment of Purge Water  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 02589  
MECI Project Number 15-5344

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 30 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.

**A total of 186.5 gallons were treated on December 10, 2015, at the referenced sites.**

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.

  
Todd D. Elder  
Staff Hydrogeologist

## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 4  
**1902349**

Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>SC DHEC - UST</u>	Report To: <u>J. Bryant - UST</u>	Attention:	REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		
Address: <u>2600 Bull Street</u>	Copy To:	Company Name:			
<u>Columbia, SC 29201</u>	Purchase Order No.: <u>4600422513</u>	Address:			
Email To: <u>bj.bryant@dhcc.sc.gov</u>	Project Name: <u>Burnette's Svc. Sta.</u>	Pace Quote Reference:			
Phone: <u>803-898-0606</u> Fax: <u>803-898-0673</u>	Project Number: <u>UST 05289/PA 51359</u>	Pace Project Manager: <u>T. Carter</u>	Site Location	STATE: <u>SC</u> <u>Jasper</u>	
Requested Due Date/TAT:		Pace Profile #:			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.		
			DATE	TIME	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>					Methanol	Other
1	MW-1	WTG			12/8/15	12:47	6											Odor		
2	MW-2	↓				12:07	↓											No odor		
3	MW-2D	↓				13:15	↓											No odor		
4	MW-3	↓				12:32	↓											Odor; dup'd		
5	MW-4	↓				12:02	↓											Odor; dup'd		
6	MW-5	WTG			12/8/15	12:20	6											No odor		
7	MW-6	↓					↓											Not sampled		
8	MW-7	WTG			12/8/15	12:05	6											No odor		
9	MW-7D	↓				12:08	↓											No odor		
10	MW-8	↓				12:17	↓											No odor		
11	MW-9	↓				11:44	↓											Slight odor		
12	MW-10	WTG			12/8/15	11:41	6											No odor		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS											
	<u>Peter J. Wylie / MECE</u>	<u>12/8/15</u>	<u>16:00</u>	<u>James Johnson</u>	<u>12-9-15</u>	<u>7:42</u>												

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Peter J. Wylie</u>	SIGNATURE of SAMPLER: <u>Peter J. Wylie</u>				
		DATE Signed (MM/DD/YY): <u>12/08/15</u>			

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-ALL-Q-020 rev. 07, 15-May-2007

### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section B</b> Required Project Information:	Report To: <u>J. Bryant</u>	<b>Section C</b> Invoice Information:	
Address: <u>UHEC - UST</u>	Copy To:	Attention:	
City/State/Zip: <u>Columbia, SC 29201</u>		Company Name:	
Email To: <u>BryantSC@che.com</u>	Purchase Order No.: <u>4600422513</u>	Address:	
Phone: <u>803-393-0604</u> Fax: <u>803-818-0623</u>	Project Name: <u>Bennett's Service Station</u>	Pace Quote Reference:	
Requested Due Date/TAT:	Project Number: <u>05289 / 51359</u>	Pace Project Manager: <u>T Carter</u>	
		Pace Profile #:	
<b>REGULATORY AGENCY</b>			Page: <u>2</u> of <u>4</u> <b>1902350</b>
			<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Site Location			STATE: <u>SC</u> <u>Jasper</u>

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPO)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other	Analysis Test ↓									
					DATE	TIME	DATE	TIME												STEX	NM	1,2-DCA's	8 OXYgnatics	EDB				
1	MW-11		JTG	G				12/8/15	12:51	6		6																Door
2	MW-13								11:49																			No odor
3	MW-14								11:50																			No odor
4	MW-14D								11:53																			No odor
5	MW-15								10:33																			No odor
6	MW-16								10:31																			No odor
7	MW-17								11:21																			No odor
8	MW-17D								11:33																			No odor
9	MW-18								10:42																			No odor
10	MW-19								11:00																			No odor
11	MW-19D								11:10																			No odor
12	MW-20		JTG	G				12/8/15	10:46	6		6																No odor

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Peter J. Wyke / MCCI</u>	<u>12/8/15</u>	<u>16:00</u>	<u>James Pharis</u>	<u>12/9/15</u>	<u>7:42</u>	

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: <u>Peter J. Wyke</u>	DATE Signed (MM/DD/YY): <u>12/08/15</u>
SIGNATURE of SAMPLER: <u>Peter J. Wyke</u>	

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



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 4  
**1902351**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SCDHEC - UST</u>		Report To: <u>J Bryant - UST</u>		Attention:	
Address: <u>7600 Bull Street</u>		Copy To:		Company Name:	
<u>Columbia, SC 29701</u>		Purchase Order No.: <u>4600422513</u>		Address:	
Email To: <u>BryantJ@dhcc.sc.gov</u>		Project Name: <u>Bennett's Service Station</u>		Pace Quote Reference:	
Phone: <u>803-898-0606</u> Fax: <u>803-898-0623</u>		Project Number: <u>05284/5135A</u>		Pace Project Manager: <u>T Carter</u>	
Requested Due Date/TAT:				Pace Profile #:	
<b>REGULATORY AGENCY</b>					
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER					
Site Location				STATE: <u>SC</u> <u>Jasper</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
			DATE	TIME	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>				Methanol	Other
1	SW-1	DWG			12/8/15	13:21	6		6								LDL		
2	SW-2					13:25													
3	SW-3					13:45													
4	SW-4					13:55													
5	SW-5					13:35													
6	WSW-1	DWG			12/8/15	13:20	6		6								LDL		
7	WSW-2																Not sampled		
8	WSW-3	DWG			12/8/15	13:35	6		6								LDL		
9	WSW-4	DW				13:55	6		6								LDL		
10	WAWW Field Blank	WT				13:20	6		6								Field blank		
11	Tip Blank	WT				13:20	2		2								Tip blank		
12	Duplicate MW-3	WTG			12/8/15	12:25	6		6								Odd; duplicate		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
LDL = Low Detection Limits	Peter J. Wylie / MELI	12/8/15	16:00	James Johnson	12/9/15	7:42	

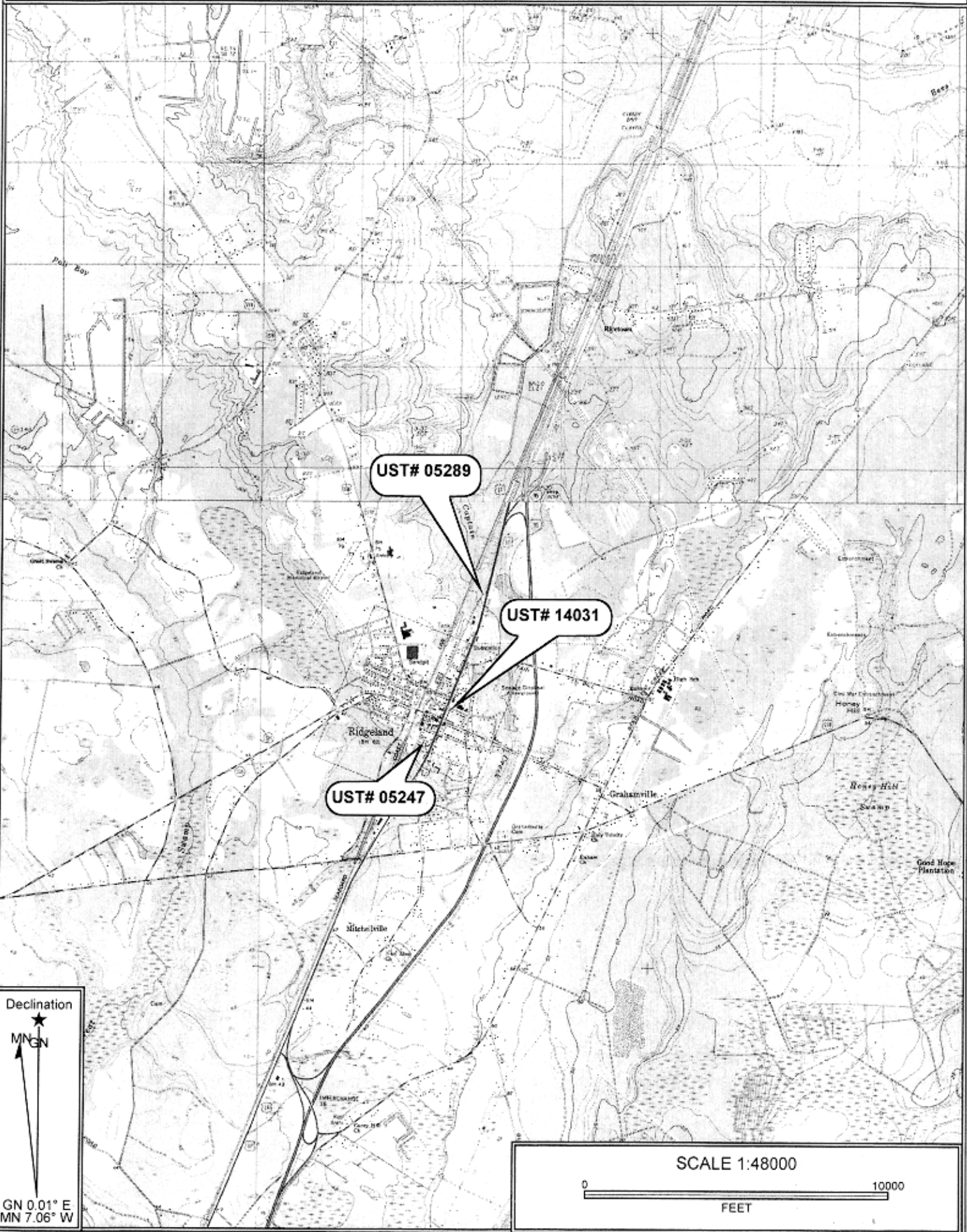
2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Peter J. Wylie</u>					
SIGNATURE of SAMPLER: <u>Peter J. Wylie</u> DATE Signed (MM/DD/YY): <u>12/08/15</u>					

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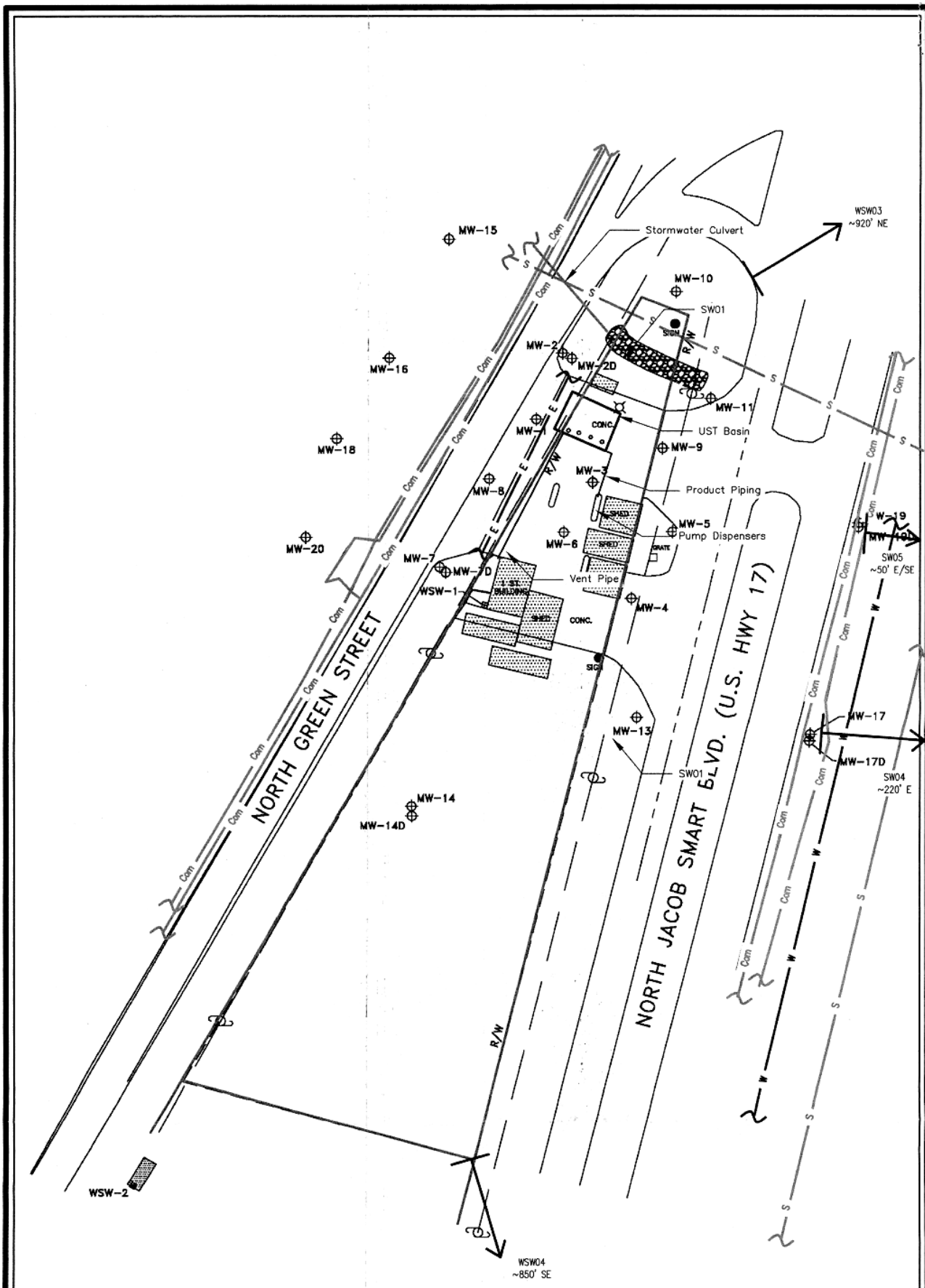


Declination








GN 0.01° E  
MN 7.06° W

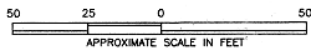
SCALE 1:48000

0 10000  
FEET



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
-  E Approximate Location of Underground Electric Line
-  Com Approximate Location of Underground Communication (Cable/Phone) Line
-  W Approximate Location of Underground Water Line
-  GAS Approximate Location of Underground Gas Line
-  S Approximate Location of Underground Sewer/Stormwater Line
-  Approximate Property Boundary



Title	Site Base Map
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County
Date	02/25/2015
Job No.	J14-080-A
<b>petra-tech</b> ENVIRONMENTAL LLC ENGINEERS & CONSULTANTS	
Figure No.	3



Pace Analytical Services, Inc.  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092



December 24, 2015

Mr. John Bryant  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Project: BURNETTE UST05289/PACE CA51359  
Pace Project No.: 92279175

Dear Mr. Bryant:

Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
Project Manager

Enclosures

cc Ashleigh Thrash, SCHDEC



**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, Inc.**  
9800 Kinsey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

## CERTIFICATIONS

Project BURNETTE UST05289/PACE CA51359  
Pace Project No.: 92279175

---

### Charlotte Certification IDs

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

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

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: BURNETTE UST05289/PACE CA51359  
Pace Project No.: 92279175

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92279175001	MW-1	Water	12/08/15 12:47	12/09/15 07:42
92279175002	MW-2	Water	12/08/15 13:07	12/09/15 07:42
92279175003	MW-2D	Water	12/08/15 13:15	12/09/15 07:42
92279175004	MW-3	Water	12/08/15 12:32	12/09/15 07:42
92279175005	MW-4	Water	12/08/15 12:02	12/09/15 07:42
92279175006	MW-5	Water	12/08/15 12:20	12/09/15 07:42
92279175007	MW-7	Water	12/08/15 12:05	12/09/15 07:42
92279175008	MW-7D	Water	12/08/15 12:08	12/09/15 07:42
92279175009	MW-8	Water	12/08/15 12:17	12/09/15 07:42
92279175010	MW-9	Water	12/08/15 11:44	12/09/15 07:42
92279175011	MW-10	Water	12/08/15 11:41	12/09/15 07:42
92279175012	MW-11	Water	12/08/15 12:57	12/09/15 07:42
92279175013	MW-13	Water	12/08/15 11:49	12/09/15 07:42
92279175014	MW-14	Water	12/08/15 11:50	12/09/15 07:42
92279175015	MW-14D	Water	12/08/15 11:53	12/09/15 07:42
92279175016	MW-15	Water	12/08/15 10:33	12/09/15 07:42
92279175017	MW-16	Water	12/08/15 10:31	12/09/15 07:42
92279175018	MW-17	Water	12/08/15 11:21	12/09/15 07:42
92279175019	MW-17D	Water	12/08/15 11:33	12/09/15 07:42
92279175020	MW-18	Water	12/08/15 10:42	12/09/15 07:42
92279175021	MW-19	Water	12/08/15 11:00	12/09/15 07:42
92279175022	MW-19D	Water	12/08/15 11:10	12/09/15 07:42
92279175023	MW-20	Water	12/08/15 10:46	12/09/15 07:42
92279175024	SW-1	Water	12/08/15 13:21	12/09/15 07:42
92279175025	SW-2	Water	12/08/15 13:25	12/09/15 07:42
92279175026	SW-3	Water	12/08/15 13:45	12/09/15 07:42
92279175027	SW-4	Water	12/08/15 13:55	12/09/15 07:42
92279175028	SW-5	Water	12/08/15 13:35	12/09/15 07:42
92279175029	WSW-1	Water	12/08/15 13:20	12/09/15 07:42
92279175030	WSW-3	Water	12/08/15 13:35	12/09/15 07:42
92279175031	WSW-4	Water	12/08/15 13:55	12/09/15 07:42
92279175032	FIELD BLANK	Water	12/08/15 13:20	12/09/15 07:42
92279175033	TRIP BLANK	Water	12/08/15 13:20	12/09/15 07:42
92279175034	DUPLICATE MW-3	Water	12/08/15 12:25	12/09/15 07:42
92279175035	DUPLICATE MW-4	Water	12/08/15 11:55	12/09/15 07:42

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279175001	MW-1	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175002	MW-2	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175003	MW-2D	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175004	MW-3	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175005	MW-4	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175006	MW-5	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175007	MW-7	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175008	MW-7D	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175009	MW-8	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175010	MW-9	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175011	MW-10	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175012	MW-11	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92279175013	MW-13	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175014	MW-14	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175015	MW-14D	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175016	MW-15	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175017	MW-16	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175018	MW-17	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92279175019	MW-17D	EPA 8011	HSK	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No: 92279175

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92279175020	MW-18	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175021	MW-19	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175022	MW-19D	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175023	MW-20	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175024	SW-1	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175025	SW-2	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175026	SW-3	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175027	SW-4	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175028	SW-5	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175029	WSW-1	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175030	WSW-3	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175031	WSW-4	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175032	FIELD BLANK	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175033	TRIP BLANK	EPA 8260	GAW	20	PASI-C
92279175034	DUPLICATE MW-3	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92279175035	DUPLICATE MW-4	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C

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**SUMMARY OF DETECTION**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92279175001</b>	<b>MW-1</b>					
EPA 8260	Benzene	357	ug/L	25.0	12/15/15 05:14	
EPA 8260	Ethylbenzene	315	ug/L	25.0	12/15/15 05:14	
EPA 8260	Naphthalene	610	ug/L	25.0	12/15/15 05:14	
EPA 8260	Toluene	552	ug/L	25.0	12/15/15 05:14	
EPA 8260	Xylene (Total)	783	ug/L	50.0	12/15/15 05:14	
EPA 8260	m&p-Xylene	512	ug/L	50.0	12/15/15 05:14	
EPA 8260	o-Xylene	271	ug/L	25.0	12/15/15 05:14	
<b>92279175002</b>	<b>MW-2</b>					
EPA 8260	tert-Butyl Alcohol	618	ug/L	100	12/15/15 06:21	
EPA 8260	Methyl-tert-butyl ether	28.9	ug/L	5.0	12/15/15 06:21	
<b>92279175004</b>	<b>MW-3</b>					
EPA 8260	Benzene	3640	ug/L	250	12/14/15 00:18	
EPA 8260	Ethylbenzene	2510	ug/L	250	12/14/15 00:18	
EPA 8260	Naphthalene	680	ug/L	250	12/14/15 00:18	
EPA 8260	Toluene	29700	ug/L	1250	12/14/15 16:10	
EPA 8260	Xylene (Total)	13800	ug/L	500	12/14/15 00:18	
EPA 8260	m&p-Xylene	9340	ug/L	500	12/14/15 00:18	
EPA 8260	o-Xylene	4440	ug/L	250	12/14/15 00:18	
<b>92279175005</b>	<b>MW-4</b>					
EPA 8260	Xylene (Total)	30.4	ug/L	10.0	12/14/15 00:35	
EPA 8260	m&p-Xylene	30.4	ug/L	10.0	12/14/15 00:35	
<b>92279175009</b>	<b>MW-8</b>					
EPA 8260	tert-Amyl Alcohol	104	ug/L	100	12/15/15 10:49	
EPA 8260	Ethylbenzene	2.3J	ug/L	5.0	12/15/15 10:49	
EPA 8260	Naphthalene	12.5	ug/L	5.0	12/15/15 10:49	
<b>92279175010</b>	<b>MW-9</b>					
EPA 8260	tert-Amyl Alcohol	440	ug/L	100	12/15/15 08:52	
EPA 8260	tert-Butyl Alcohol	288	ug/L	100	12/15/15 08:52	
EPA 8260	Methyl-tert-butyl ether	16.9	ug/L	5.0	12/15/15 08:52	
<b>92279175022</b>	<b>MW-19D</b>					
EPA 8260	Toluene	2.9J	ug/L	5.0	12/16/15 19:41	
<b>92279175024</b>	<b>SW-1</b>					
EPA 8260	Toluene	0.29J	ug/L	1.0	12/15/15 18:14	B,C9
<b>92279175025</b>	<b>SW-2</b>					
EPA 8260	Toluene	0.29J	ug/L	1.0	12/15/15 18:31	B,C9
<b>92279175026</b>	<b>SW-3</b>					
EPA 8260	Toluene	2.0	ug/L	1.0	12/16/15 17:42	
<b>92279175027</b>	<b>SW-4</b>					
EPA 8260	Toluene	1.5	ug/L	1.0	12/16/15 17:59	

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**SUMMARY OF DETECTION**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No . 92279175

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92279175028</b>	<b>SW-5</b>					
EPA 8260	Toluene	0.34J	ug/L	1.0	12/15/15 19:21	B,C9
<b>92279175034</b>	<b>DUPLICATE MW-3</b>					
EPA 8260	Benzene	3910	ug/L	250	12/16/15 20:48	
EPA 8260	Ethylbenzene	2530	ug/L	250	12/16/15 20:48	
EPA 8260	Naphthalene	698	ug/L	250	12/16/15 20:48	
EPA 8260	Toluene	32900	ug/L	2000	12/17/15 13:13	
EPA 8260	Xylene (Total)	13600	ug/L	500	12/16/15 20:48	
EPA 8260	m&p-Xylene	9180	ug/L	500	12/16/15 20:48	
EPA 8260	o-Xylene	4420	ug/L	250	12/16/15 20:48	
<b>92279175035</b>	<b>DUPLICATE MW-4</b>					
EPA 8260	Toluene	1.6J	ug/L	5.0	12/16/15 21:05	
EPA 8260	Xylene (Total)	29.7	ug/L	10.0	12/16/15 21:05	
EPA 8260	m&p-Xylene	29.7	ug/L	10.0	12/16/15 21:05	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-1 Lab ID: 92279175001 Collected: 12/08/15 12:47 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:27	12/11/15 09:26	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	12/10/15 16:27	12/11/15 09:26	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	500	384	5		12/15/15 05:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		12/15/15 05:14	994-05-8	
Benzene	357	ug/L	25.0	8.5	5		12/15/15 05:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		12/15/15 05:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		12/15/15 05:14	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		12/15/15 05:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		12/15/15 05:14	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		12/15/15 05:14	108-20-3	
Ethanol	ND	ug/L	1000	689	5		12/15/15 05:14	64-17-5	
Ethylbenzene	315	ug/L	25.0	8.0	5		12/15/15 05:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		12/15/15 05:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		12/15/15 05:14	1634-04-4	
Naphthalene	610	ug/L	25.0	10.0	5		12/15/15 05:14	91-20-3	
Toluene	552	ug/L	25.0	8.0	5		12/15/15 05:14	108-88-3	
Xylene (Total)	783	ug/L	50.0	13.5	5		12/15/15 05:14	1330-20-7	
m&p-Xylene	512	ug/L	50.0	15.5	5		12/15/15 05:14	179601-23-1	
o-Xylene	271	ug/L	25.0	8.0	5		12/15/15 05:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		5		12/15/15 05:14	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		5		12/15/15 05:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130		5		12/15/15 05:14	2037-26-5	

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### ANALYTICAL RESULTS

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-2 Lab ID: 92279175002 Collected: 12/08/15 13:07 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:28	12/11/15 09:45	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	12/10/15 16:28	12/11/15 09:45	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/15/15 06:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/15/15 06:21	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/15/15 06:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/15/15 06:21	624-95-3	
tert-Butyl Alcohol	618	ug/L	100	57.7	1		12/15/15 06:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/15/15 06:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/15/15 06:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/15/15 06:21	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/15/15 06:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/15/15 06:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/15/15 06:21	637-92-3	
Methyl-tert-butyl ether	28.9	ug/L	5.0	1.7	1		12/15/15 06:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/15/15 06:21	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/15/15 06:21	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/15/15 06:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/15/15 06:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/15/15 06:21	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/15/15 06:21	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/15/15 06:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/15/15 06:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-2D		Lab ID: 92279175003		Collected	12/08/15 13:15	Received	12/09/15 07:42	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:28	12/11/15 10 04	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	12/10/15 16:28	12/11/15 10 04	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/14/15 00:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/14/15 00:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/14/15 00:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/14/15 00 01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/14/15 00 01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/14/15 00 01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/14/15 00:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/14/15 00:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/14/15 00:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/14/15 00:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/14/15 00 01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/14/15 00 01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/14/15 00:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/14/15 00:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/14/15 00:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/14/15 00:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/14/15 00 01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/14/15 00:01	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/14/15 00:01	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		12/14/15 00 01	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Sample: MW-3 Lab ID: 92279175004 Collected: 12/08/15 12:32 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:28	12/11/15 10:24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	12/10/15 16:28	12/11/15 10:24	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	5000	3840	50		12/14/15 00:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		12/14/15 00:18	994-05-8	
Benzene	<b>3640</b>	ug/L	250	85.0	50		12/14/15 00:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		12/14/15 00:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		12/14/15 00:18	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		12/14/15 00:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		12/14/15 00:18	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		12/14/15 00:18	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		12/14/15 00:18	64-17-5	
Ethylbenzene	<b>2510</b>	ug/L	250	80.0	50		12/14/15 00:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		12/14/15 00:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	85.0	50		12/14/15 00:18	1634-04-4	
Naphthalene	<b>680</b>	ug/L	250	100	50		12/14/15 00:18	91-20-3	
Toluene	<b>29700</b>	ug/L	1250	400	250		12/14/15 16:10	108-88-3	
Xylene (Total)	<b>13800</b>	ug/L	500	135	50		12/14/15 00:18	1330-20-7	
m&p-Xylene	<b>9340</b>	ug/L	500	155	50		12/14/15 00:18	179601-23-1	
o-Xylene	<b>4440</b>	ug/L	250	80.0	50		12/14/15 00:18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		50		12/14/15 00:18	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		50		12/14/15 00:18	17060-07-0	
Toluene-d8 (S)	99	%	70-130		50		12/14/15 00:18	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359

Pace Project No.: 92279175

Sample: MW-4 Lab ID: 92279175005 Collected: 12/08/15 12:02 Received: 12/09/15 07:42 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0 020	0.020	1	12/10/15 16:29	12/11/15 10:43	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	12/10/15 16:29	12/11/15 10:43	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/14/15 00:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/14/15 00:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/14/15 00:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/14/15 00:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/14/15 00:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/14/15 00:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/14/15 00:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/14/15 00:35	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/14/15 00:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/14/15 00:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/14/15 00:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/14/15 00:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/14/15 00:35	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/14/15 00:35	108-88-3	
Xylene (Total)	30.4	ug/L	10.0	2.7	1		12/14/15 00:35	1330-20-7	
m&p-Xylene	30.4	ug/L	10.0	3.1	1		12/14/15 00:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/14/15 00:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/14/15 00:35	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/14/15 00:35	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/14/15 00:35	2037-26-5	

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**ANALYTICAL RESULTS**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-5 Lab ID: 92279175006 Collected: 12/08/15 12.20 Received: 12/09/15 07 42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:31	12/11/15 08 08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	12/10/15 16.31	12/11/15 08:08	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/15/15 08:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/15/15 08:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/15/15 08:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/15/15 08:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/15/15 08:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/15/15 08:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/15/15 08:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/15/15 08:18	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/15/15 08:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/15/15 08:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/15/15 08:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/15/15 08:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/15/15 08:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/15/15 08:18	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/15/15 08:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/15/15 08:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/15/15 08:18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/15/15 08:18	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/15/15 08:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/15/15 08:18	2037-26-5	

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**ANALYTICAL RESULTS**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Sample: MW-7 Lab ID: 92279175007 Collected: 12/08/15 12:05 Received 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:32	12/11/15 09:09	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	12/10/15 16:32	12/11/15 09:09	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/15/15 08:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/15/15 08:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/15/15 08:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/15/15 08:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/15/15 08:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/15/15 08:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/15/15 08:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/15/15 08:35	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/15/15 08:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/15/15 08:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/15/15 08:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/15/15 08:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/15/15 08:35	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/15/15 08:35	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/15/15 08:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/15/15 08:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/15/15 08:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/15/15 08:35	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/15/15 08:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/15/15 08:35	2037-26-5	

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**ANALYTICAL RESULTS**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-7D Lab ID: 92279175008 Collected 12/08/15 12:08 Received: 12/09/15 07:42 Matrix Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:32	12/11/15 09:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	12/10/15 16:32	12/11/15 09:29	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/15/15 12:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/15/15 12:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/15/15 12:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/15/15 12:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/15/15 12:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/15/15 12:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/15/15 12:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/15/15 12:29	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/15/15 12:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/15/15 12:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/15/15 12:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/15/15 12:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/15/15 12:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/15/15 12:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/15/15 12:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/15/15 12:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/15/15 12:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/15/15 12:29	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/15/15 12:29	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/15/15 12:29	2037-26-5	

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### ANALYTICAL RESULTS

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-8 Lab ID: 92279175009 Collected: 12/08/15 12:17 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:32	12/11/15 09:49	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	12/10/15 16:32	12/11/15 09:49	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	104	ug/L	100	76.8	1		12/15/15 10:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/15/15 10:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/15/15 10:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/15/15 10:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/15/15 10:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/15/15 10:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/15/15 10:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/15/15 10:49	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/15/15 10:49	64-17-5	
Ethylbenzene	2.3J	ug/L	5.0	1.6	1		12/15/15 10:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/15/15 10:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/15/15 10:49	1634-04-4	
Naphthalene	12.5	ug/L	5.0	2.0	1		12/15/15 10:49	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/15/15 10:49	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/15/15 10:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/15/15 10:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/15/15 10:49	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/15/15 10:49	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/15/15 10:49	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/15/15 10:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-9 Lab ID: 92279175010 Collected: 12/08/15 11 44 Received 12/09/15 07 42 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:33	12/11/15 12:36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	12/10/15 16:33	12/11/15 12:36	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	440	ug/L	100	76.8	1		12/15/15 08:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/15/15 08:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/15/15 08:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/15/15 08:52	624-95-3	
tert-Butyl Alcohol	288	ug/L	100	57.7	1		12/15/15 08:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/15/15 08:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/15/15 08:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/15/15 08:52	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/15/15 08:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/15/15 08:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/15/15 08:52	637-92-3	
Methyl-tert-butyl ether	16.9	ug/L	5.0	1.7	1		12/15/15 08:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/15/15 08:52	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/15/15 08:52	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/15/15 08:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/15/15 08:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/15/15 08:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/15/15 08:52	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/15/15 08:52	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/15/15 08:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-10 Lab ID: 92279175011 Collected: 12/08/15 11:41 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011 Preparation Method. EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:33	12/11/15 12:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	12/10/15 16:33	12/11/15 12:56	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 15:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 15:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 15:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 15:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 15:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 15:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 15:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 15:10	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 15:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 15:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 15:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 15:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 15:10	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 15:10	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 15:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 15:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 15:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/16/15 15:10	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/16/15 15:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/16/15 15:10	2037-26-5	

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**ANALYTICAL RESULTS**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-11 Lab ID: 92279175012 Collected: 12/08/15 12:57 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:33	12/11/15 13:17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	12/10/15 16:33	12/11/15 13:17	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/18/15 12:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/18/15 12:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 12:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/18/15 12:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 12:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/18/15 12:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 12:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 12:46	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/18/15 12:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 12:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/18/15 12:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 12:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 12:46	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 12:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/18/15 12:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 12:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 12:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/18/15 12:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/18/15 12:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/18/15 12:46	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Sample: MW-13 Lab ID: 92279175013 Collected: 12/08/15 11:49 Received: 12/09/15 07:42 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:34	12/11/15 13:37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	12/10/15 16:34	12/11/15 13:37	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 15:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 15:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 15:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 15:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 15:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 15:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 15:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 15:44	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 15:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 15:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 15:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 15:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 15:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 15:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 15:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 15:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 15:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		12/16/15 15:44	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/16/15 15:44	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/16/15 15:44	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-14 Lab ID: 92279175014 Collected 12/08/15 11:50 Received 12/09/15 07:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:34	12/11/15 13:57	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	12/10/15 16:34	12/11/15 13:57	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 16:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 16:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 16:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 16:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 16:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 16:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 16:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 16:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 16:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 16:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 16:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 16:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 16:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 16:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 16:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 16:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 16:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/16/15 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/16/15 16:01	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/16/15 16:01	2037-26-5	

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**ANALYTICAL RESULTS**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-14D Lab ID: 92279175015 Collected: 12/08/15 11:53 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:35	12/11/15 14 17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	12/10/15 16.35	12/11/15 14 17	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 16 18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 16 18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 16:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 16:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 16:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 16:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 16 18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 16.18	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 16 18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 16 18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 16:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 16:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 16:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 16 18	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 16 18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 16 18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 16.18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/16/15 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		12/16/15 16 18	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/16/15 16 18	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No : 92279175

Sample: MW-15 Lab ID: 92279175016 Collected: 12/08/15 10:33 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:35	12/11/15 14:37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	73	%	60-140		1	12/10/15 16:35	12/11/15 14:37	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 16:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 16:51	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 16:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 16:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 16:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 16:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 16:51	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 16:51	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 16:51	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 16:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 16:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 16:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 16:51	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 16:51	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 16:51	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 16:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 16:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/16/15 16:51	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		12/16/15 16:51	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/16/15 16:51	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-16 Lab ID: 92279175017 Collected: 12/08/15 10:31 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
			Analytical Method EPA 8011 Preparation Method. EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:35	12/11/15 14 58	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	71	%	60-140		1	12/10/15 16:35	12/11/15 14 58	301-79-56	
<b>8260 MSV</b>									
			Analytical Method EPA 8260						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 17 08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 17 08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 17 08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 17 08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 17:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 17:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 17:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 17 08	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 17:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 17:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 17 08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 17:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 17:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 17:08	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 17 08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 17 08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 17 08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		12/16/15 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/16/15 17:08	17060-07-0	
Toluene-d8 (S)	114	%	70-130		1		12/16/15 17:08	2037-26-5	

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### ANALYTICAL RESULTS

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No : 92279175

Sample: MW-17 Lab ID: 92279175018 Collected 12/08/15 11:21 Received: 12/09/15 07:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:36	12/11/15 18:54	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	12/10/15 16:36	12/11/15 18:54	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 18:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 18:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 18:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 18:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 18:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 18:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 18:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 18:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 18:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 18:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 18:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 18:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 18:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 18:32	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 18:32	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 18:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 18:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/16/15 18:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/16/15 18:32	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/16/15 18:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: MW-17D      Lab ID: 92279175019      Collected: 12/08/15 11:33      Received: 12/09/15 07:42      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:36	12/11/15 19:14	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	12/10/15 16:36	12/11/15 19:14	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 18:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 18:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 18:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 18:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 18:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 18:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 18:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 18:50	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 18:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 18:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 18:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 18:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 18:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 18:50	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 18:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 18:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 18:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/16/15 18:50	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		12/16/15 18:50	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/16/15 18:50	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-18 Lab ID: 92279175020 Collected: 12/08/15 10:42 Received 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:36	12/11/15 19:35	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	12/10/15 16:36	12/11/15 19:35	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/18/15 13:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/18/15 13:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 13:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/18/15 13:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 13:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/18/15 13:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 13:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 13:03	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/18/15 13:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 13:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/18/15 13:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 13:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 13:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 13:03	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/18/15 13:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 13:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 13:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/18/15 13:03	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/18/15 13:03	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/18/15 13:03	2037-26-5	

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**ANALYTICAL RESULTS**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Sample: MW-19 Lab ID: 92279175021 Collected 12/08/15 11:00 Received 12/09/15 07:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:37	12/11/15 19:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	12/10/15 16:37	12/11/15 19:55	301-79-56	
<b>8260 MSV</b> Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 19:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 19:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 19:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 19:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 19:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 19:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 19:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 19:24	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 19:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 19:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 19:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 19:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 19:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 19:24	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 19:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 19:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 19:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/16/15 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/16/15 19:24	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/16/15 19:24	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-19D Lab ID: 92279175022 Collected: 12/08/15 11:10 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	12/10/15 16:37	12/11/15 20:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	12/10/15 16:37	12/11/15 20:15	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 19:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 19:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 19:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 19:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 19:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 19:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 19:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 19:41	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 19:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 19:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 19:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 19:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 19:41	91-20-3	
Toluene	2.9J	ug/L	5.0	1.6	1		12/16/15 19:41	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 19:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 19:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 19:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/16/15 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/16/15 19:41	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/16/15 19:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: MW-20 Lab ID: 92279175023 Collected: 12/08/15 10:46 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0.019	1	12/10/15 16 38	12/11/15 20 36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	74	%	60-140		1	12/10/15 16 38	12/11/15 20 36	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 19:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3.4	1		12/16/15 19:57	994-05-8	
Benzene	ND	ug/L	5 0	1.7	1		12/16/15 19:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 19:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 19:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	7 3	1		12/16/15 19:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5 0	1 8	1		12/16/15 19:57	107-06-2	
Diisopropyl ether	ND	ug/L	5 0	1 7	1		12/16/15 19:57	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 19:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 19:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 19:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5 0	1 7	1		12/16/15 19:57	1634-04-4	
Naphthalene	ND	ug/L	5 0	2 0	1		12/16/15 19:57	91-20-3	
Toluene	ND	ug/L	5 0	1 6	1		12/16/15 19:57	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 19:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 19:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 19:57	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/16/15 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/16/15 19:57	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/16/15 19:57	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: SW-1 Lab ID: 92279175024 Collected: 12/08/15 13:21 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method. EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/10/15 16:38	12/11/15 20:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	12/10/15 16:38	12/11/15 20:56	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method. EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/15/15 18:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/15/15 18:14	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/15/15 18:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/15/15 18:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/15/15 18:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/15/15 18:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/15/15 18:14	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/15/15 18:14	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/15/15 18:14	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/15/15 18:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/15/15 18:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/15/15 18:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/15/15 18:14	91-20-3	
Toluene	0.29J	ug/L	1.0	0.26	1		12/15/15 18:14	108-88-3	B,C9
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/15/15 18:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/15/15 18:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/15/15 18:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		12/15/15 18:14	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/15/15 18:14	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/15/15 18:14	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: SW-2		Lab ID: 92279175025		Collected	12/08/15 13:25	Received	12/09/15 07:42	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0 020	0.020	1	12/10/15 16:38	12/11/15 21:17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	12/10/15 16:38	12/11/15 21:17	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/15/15 18:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0 10	1		12/15/15 18:31	994-05-8	
Benzene	ND	ug/L	1 0	0.25	1		12/15/15 18:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/15/15 18:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3 6	1		12/15/15 18:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	1.9	1		12/15/15 18:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0 24	1		12/15/15 18:31	107-06-2	
Diisopropyl ether	ND	ug/L	1 0	0.12	1		12/15/15 18:31	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/15/15 18:31	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0 30	1		12/15/15 18:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	0.070	1		12/15/15 18:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1 0	0.21	1		12/15/15 18:31	1634-04-4	
Naphthalene	ND	ug/L	1 0	0.24	1		12/15/15 18:31	91-20-3	
Toluene	0.29J	ug/L	1 0	0.26	1		12/15/15 18:31	108-88-3	B,C9
Xylene (Total)	ND	ug/L	2.0	0 66	1		12/15/15 18:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0 66	1		12/15/15 18:31	179601-23-1	
o-Xylene	ND	ug/L	1 0	0.23	1		12/15/15 18:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/15/15 18:31	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		12/15/15 18:31	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/15/15 18:31	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: SW-3 Lab ID: 92279175026 Collected: 12/08/15 13.45 Received 12/09/15 07 42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/14/15 19 16	12/15/15 00.25	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	12/14/15 19:16	12/15/15 00.25	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/16/15 17.42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/16/15 17.42	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/16/15 17.42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/16/15 17.42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/16/15 17.42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/16/15 17.42	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/16/15 17.42	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/16/15 17.42	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/16/15 17.42	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/16/15 17.42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/16/15 17.42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/16/15 17.42	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/16/15 17.42	91-20-3	
Toluene	2.0	ug/L	1.0	0.26	1		12/16/15 17.42	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/16/15 17.42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/16/15 17.42	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/16/15 17.42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/16/15 17.42	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/16/15 17.42	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		12/16/15 17.42	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No: 92279175

Sample: SW-4		Lab ID: 92279175027		Collected	12/08/15 13:55	Received	12/09/15 07 42	Matrix	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/11/15 16:50	12/12/15 03:20	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	69	%	60-140		1	12/11/15 16:50	12/12/15 03 20	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/16/15 17:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/16/15 17:59	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/16/15 17:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/16/15 17:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/16/15 17:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/16/15 17:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/16/15 17:59	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/16/15 17:59	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/16/15 17:59	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/16/15 17:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/16/15 17:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/16/15 17:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/16/15 17:59	91-20-3	
Toluene	1.5	ug/L	1.0	0.26	1		12/16/15 17:59	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/16/15 17:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/16/15 17:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/16/15 17:59	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/16/15 17:59	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/16/15 17:59	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/16/15 17:59	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: SW-5 Lab ID: 92279175028 Collected 12/08/15 13 35 Received: 12/09/15 07 42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/11/15 16.50	12/12/15 03 41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	72	%	60-140		1	12/11/15 16 50	12/12/15 03:41	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/15/15 19:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/15/15 19:21	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/15/15 19:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/15/15 19 21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/15/15 19 21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/15/15 19:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/15/15 19.21	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/15/15 19 21	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/15/15 19.21	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/15/15 19:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/15/15 19:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/15/15 19:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/15/15 19:21	91-20-3	
Toluene	0.34J	ug/L	1.0	0.26	1		12/15/15 19 21	108-88-3	B,C9
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/15/15 19 21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/15/15 19.21	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/15/15 19:21	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108	%	70-130		1		12/15/15 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/15/15 19:21	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/15/15 19:21	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No : 92279175

Sample: WSW-1      Lab ID: 92279175029      Collected 12/08/15 13:20      Received 12/09/15 07:42      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/11/15 16:50	12/12/15 04:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	12/11/15 16:50	12/12/15 04:01	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/16/15 05:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/16/15 05:50	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/16/15 05:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/16/15 05:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/16/15 05:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/16/15 05:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/16/15 05:50	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/16/15 05:50	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/16/15 05:50	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/16/15 05:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/16/15 05:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/16/15 05:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/16/15 05:50	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/16/15 05:50	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/16/15 05:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/16/15 05:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/16/15 05:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/16/15 05:50	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/16/15 05:50	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/16/15 05:50	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: WSW-3 Lab ID: 92279175030 Collected: 12/08/15 13:35 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/11/15 16:50	12/12/15 04:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	12/11/15 16:50	12/12/15 04:21	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/16/15 06:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/16/15 06:07	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/16/15 06:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/16/15 06:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/16/15 06:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/16/15 06:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/16/15 06:07	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/16/15 06:07	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/16/15 06:07	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/16/15 06:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/16/15 06:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/16/15 06:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/16/15 06:07	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/16/15 06:07	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/16/15 06:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/16/15 06:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/16/15 06:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	110	%	70-130		1		12/16/15 06:07	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/16/15 06:07	17060-07-0	
Toluene-d8 (S)	114	%	70-130		1		12/16/15 06:07	2037-26-5	

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**ANALYTICAL RESULTS**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

Sample: WSW-4									
Lab ID: 92279175031									
Collected: 12/08/15 13:55 Received: 12/09/15 07:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/11/15 16:50	12/12/15 04:41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	12/11/15 16:50	12/12/15 04:41	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/16/15 06:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/16/15 06:24	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/16/15 06:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/16/15 06:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/16/15 06:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/16/15 06:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/16/15 06:24	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/16/15 06:24	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/16/15 06:24	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/16/15 06:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/16/15 06:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/16/15 06:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/16/15 06:24	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/16/15 06:24	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/16/15 06:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/16/15 06:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/16/15 06:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/16/15 06:24	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/16/15 06:24	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/16/15 06:24	2037-26-5	

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**ANALYTICAL RESULTS**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Sample: FIELD BLANK Lab ID: 92279175032 Collected 12/08/15 13:20 Received: 12/09/15 07:42 Matrix Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/11/15 16:50	12/12/15 05:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	12/11/15 16:50	12/12/15 05:01	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 20:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 20:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 20:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 20:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 20:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 20:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 20:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 20:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 20:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 20:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 20:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 20:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 20:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 20:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 20:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 20:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 20:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/16/15 20:14	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/16/15 20:14	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/16/15 20:14	2037-26-5	

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### ANALYTICAL RESULTS

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Sample: TRIP BLANK      Lab ID: 92279175033      Collected: 12/08/15 13:20      Received: 12/09/15 07:42      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 20:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 20:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 20:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 20:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 20:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 20:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 20:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 20:31	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 20:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 20:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 20:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 20:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 20:31	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/16/15 20:31	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		12/16/15 20:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/16/15 20:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 20:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/16/15 20:31	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		12/16/15 20:31	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/16/15 20:31	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Sample: DUPLICATE MW-3 Lab ID: 92279175034 Collected: 12/08/15 12:25 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/11/15 16:50	12/12/15 05:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	12/11/15 16:50	12/12/15 05:21	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	5000	3840	50		12/16/15 20:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		12/16/15 20:48	994-05-8	
Benzene	3910	ug/L	250	85.0	50		12/16/15 20:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		12/16/15 20:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		12/16/15 20:48	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		12/16/15 20:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		12/16/15 20:48	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		12/16/15 20:48	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		12/16/15 20:48	64-17-5	
Ethylbenzene	2530	ug/L	250	80.0	50		12/16/15 20:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		12/16/15 20:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	85.0	50		12/16/15 20:48	1634-04-4	
Naphthalene	698	ug/L	250	100	50		12/16/15 20:48	91-20-3	
Toluene	32900	ug/L	2000	640	400		12/17/15 13:13	108-88-3	
Xylene (Total)	13600	ug/L	500	135	50		12/16/15 20:48	1330-20-7	
m&p-Xylene	9180	ug/L	500	155	50		12/16/15 20:48	179601-23-1	
o-Xylene	4420	ug/L	250	80.0	50		12/16/15 20:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		50		12/16/15 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		50		12/16/15 20:48	17060-07-0	
Toluene-d8 (S)	104	%	70-130		50		12/16/15 20:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTE UST05289/PACE CA51359

Pace Project No.: 92279175

Sample: DUPLICATE MW-4 Lab ID: 92279175035 Collected: 12/08/15 11:55 Received: 12/09/15 07:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.021	1	12/14/15 19:16	12/15/15 00:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	12/14/15 19:16	12/15/15 00:44	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/16/15 21:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/16/15 21:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/16/15 21:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/16/15 21:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/16/15 21:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/16/15 21:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/16/15 21:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/16/15 21:05	108-20-3	
Ethanol	ND	ug/L	200	138	1		12/16/15 21:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/16/15 21:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/16/15 21:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/16/15 21:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/16/15 21:05	91-20-3	
Toluene	1.6J	ug/L	5.0	1.6	1		12/16/15 21:05	108-88-3	
Xylene (Total)	29.7	ug/L	10.0	2.7	1		12/16/15 21:05	1330-20-7	
m&p-Xylene	29.7	ug/L	10.0	3.1	1		12/16/15 21:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/16/15 21:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/16/15 21:05	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/16/15 21:05	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/16/15 21:05	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

QC Batch: MSV/34711 Analysis Method EPA 8260  
 QC Batch Method EPA 8260 Analysis Description 8260 MSV Low Level SC  
 Associated Lab Samples 92279175024, 92279175025, 92279175028

METHOD BLANK 1629245 Matrix: Water  
 Associated Lab Samples: 92279175024, 92279175025, 92279175028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	12/15/15 11:44	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	12/15/15 11:44	
Benzene	ug/L	ND	1.0	0.25	12/15/15 11:44	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/15/15 11:44	
Ethanol	ug/L	ND	200	33.0	12/15/15 11:44	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	12/15/15 11:44	
Ethylbenzene	ug/L	ND	1.0	0.30	12/15/15 11:44	
m&p-Xylene	ug/L	ND	2.0	0.66	12/15/15 11:44	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/15/15 11:44	
Naphthalene	ug/L	ND	1.0	0.24	12/15/15 11:44	
o-Xylene	ug/L	ND	1.0	0.23	12/15/15 11:44	
tert-Amyl Alcohol	ug/L	ND	100	50.0	12/15/15 11:44	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	12/15/15 11:44	
tert-Butyl Alcohol	ug/L	ND	100	3.6	12/15/15 11:44	
tert-Butyl Formate	ug/L	ND	50.0	1.9	12/15/15 11:44	
Toluene	ug/L	0.54J	1.0	0.26	12/15/15 11:44	
Xylene (Total)	ug/L	ND	2.0	0.66	12/15/15 11:44	
1,2-Dichloroethane-d4 (S)	%	103	70-130		12/15/15 11:44	
4-Bromofluorobenzene (S)	%	105	70-130		12/15/15 11:44	
Toluene-d8 (S)	%	105	70-130		12/15/15 11:44	

LABORATORY CONTROL SAMPLE 1629246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.4	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	52.4	105	70-130	
Diisopropyl ether	ug/L	50	53.4	107	70-130	
Ethanol	ug/L	2000	2100	105	70-130	
Ethyl-tert-butyl ether	ug/L	100	116	116	70-130	
Ethylbenzene	ug/L	50	50.3	101	70-130	
m&p-Xylene	ug/L	100	98.6	99	70-130	
Methyl-tert-butyl ether	ug/L	50	56.4	113	70-130	
Naphthalene	ug/L	50	51.1	102	70-130	
o-Xylene	ug/L	50	48.0	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	99.7	100	70-130	
tert-Butyl Alcohol	ug/L	500	549	110	70-130	
tert-Butyl Formate	ug/L	400	443	111	70-130	
Toluene	ug/L	50	48.7	97	70-130	

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### QUALITY CONTROL DATA

Project: BURNETTE UST05289/PACE CA51359  
Pace Project No.: 92279175

LABORATORY CONTROL SAMPLE: 1629246

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			96	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No : 92279175

QC Batch: MSV/34727 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92279175029, 92279175030, 92279175031

METHOD BLANK: 1629899 Matrix: Water  
 Associated Lab Samples 92279175029, 92279175030, 92279175031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	12/16/15 00:27	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	12/16/15 00:27	
Benzene	ug/L	ND	1.0	0.25	12/16/15 00:27	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/16/15 00:27	
Ethanol	ug/L	ND	200	33.0	12/16/15 00:27	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	12/16/15 00:27	
Ethylbenzene	ug/L	ND	1.0	0.30	12/16/15 00:27	
m&p-Xylene	ug/L	ND	2.0	0.66	12/16/15 00:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/16/15 00:27	
Naphthalene	ug/L	ND	1.0	0.24	12/16/15 00:27	
o-Xylene	ug/L	ND	1.0	0.23	12/16/15 00:27	
tert-Amyl Alcohol	ug/L	ND	100	50.0	12/16/15 00:27	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	12/16/15 00:27	
tert-Butyl Alcohol	ug/L	ND	100	3.6	12/16/15 00:27	
tert-Butyl Formate	ug/L	ND	50.0	1.9	12/16/15 00:27	
Toluene	ug/L	0.32J	1.0	0.26	12/16/15 00:27	
Xylene (Total)	ug/L	ND	2.0	0.66	12/16/15 00:27	
1,2-Dichloroethane-d4 (S)	%	97	70-130		12/16/15 00:27	
4-Bromofluorobenzene (S)	%	105	70-130		12/16/15 00:27	
Toluene-d8 (S)	%	104	70-130		12/16/15 00:27	

LABORATORY CONTROL SAMPLE 1629900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Benzene	ug/L	50	48.0	96	70-130	
Diisopropyl ether	ug/L	50	50.4	101	70-130	
Ethanol	ug/L	2000	2220	111	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
Ethylbenzene	ug/L	50	46.9	94	70-130	
m&p-Xylene	ug/L	100	91.8	92	70-130	
Methyl-tert-butyl ether	ug/L	50	56.2	112	70-130	
Naphthalene	ug/L	50	49.8	100	70-130	
o-Xylene	ug/L	50	45.0	90	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	99.7	100	70-130	
tert-Butyl Alcohol	ug/L	500	585	117	70-130	
tert-Butyl Formate	ug/L	400	445	111	70-130	
Toluene	ug/L	50	46.2	92	70-130	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

LABORATORY CONTROL SAMPLE 1629900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1629902

Parameter	Units	92279317004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	0.31J	20	19.8	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	423	106	70-130	
Benzene	ug/L	ND	20	22.2	111	70-130	
Diisopropyl ether	ug/L	ND	20	19.9	99	70-130	
Ethanol	ug/L	ND	800	923	115	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	42.9	107	70-130	
Ethylbenzene	ug/L	ND	20	21.6	108	70-130	
m&p-Xylene	ug/L	ND	40	42.1	105	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.5	103	70-130	
Naphthalene	ug/L	ND	20	20.2	101	70-130	
o-Xylene	ug/L	ND	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	ND	400	424	104	70-130	
tert-Amylmethyl ether	ug/L	ND	40	39.1	98	70-130	
tert-Butyl Alcohol	ug/L	ND	200	320	159	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1
Toluene	ug/L	ND	20	22.2	111	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE 1629901

Parameter	Units	92279317003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	2.6	2.6	0	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	2.6	3.2	22	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	1.1J	1.5J		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	0.29J	0.30J		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

SAMPLE DUPLICATE: 1629901

Parameter	Units	92279317003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	10.6J	10 8J			30
tert-Butyl Formate	ug/L	ND	ND			30
Toluene	ug/L	ND	ND			30
Xylene (Total)	ug/L	ND	ND			30
1,2-Dichloroethane-d4 (S)	%	99	100	1		
4-Bromofluorobenzene (S)	%	104	103	1		
Toluene-d8 (S)	%	104	105	1		

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No: 92279175

QC Batch: MSV/34743 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92279175026, 92279175027

METHOD BLANK 1630786 Matrix: Water  
 Associated Lab Samples 92279175026, 92279175027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1 0	0 24	12/16/15 12:20	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	12/16/15 12:20	
Benzene	ug/L	ND	1 0	0.25	12/16/15 12:20	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/16/15 12:20	
Ethanol	ug/L	ND	200	33.0	12/16/15 12:20	
Ethyl-tert-butyl ether	ug/L	ND	10 0	0.070	12/16/15 12:20	
Ethylbenzene	ug/L	ND	1 0	0 30	12/16/15 12:20	
m&p-Xylene	ug/L	ND	2 0	0.66	12/16/15 12:20	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/16/15 12:20	
Naphthalene	ug/L	ND	1.0	0 24	12/16/15 12:20	
o-Xylene	ug/L	ND	1 0	0 23	12/16/15 12:20	
tert-Amyl Alcohol	ug/L	ND	100	50.0	12/16/15 12:20	
tert-Amylmethyl ether	ug/L	ND	10 0	0.10	12/16/15 12:20	
tert-Butyl Alcohol	ug/L	ND	100	3 6	12/16/15 12:20	
tert-Butyl Formate	ug/L	ND	50.0	1 9	12/16/15 12:20	
Toluene	ug/L	ND	1.0	0 26	12/16/15 12:20	
Xylene (Total)	ug/L	ND	2 0	0 66	12/16/15 12:20	
1,2-Dichloroethane-d4 (S)	%	102	70-130		12/16/15 12:20	
4-Bromofluorobenzene (S)	%	107	70-130		12/16/15 12:20	
Toluene-d8 (S)	%	109	70-130		12/16/15 12:20	

LABORATORY CONTROL SAMPLE 1630787

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.2	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	935	94	70-130	
Benzene	ug/L	50	48.9	98	70-130	
Diisopropyl ether	ug/L	50	49.5	99	70-130	
Ethanol	ug/L	2000	1940	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	46.4	93	70-130	
m&p-Xylene	ug/L	100	94.0	94	70-130	
Methyl-tert-butyl ether	ug/L	50	52.4	105	70-130	
Naphthalene	ug/L	50	44.5	89	70-130	
o-Xylene	ug/L	50	46.5	93	70-130	
tert-Amyl Alcohol	ug/L	1000	892	89	70-130	
tert-Amylmethyl ether	ug/L	100	94.8	95	70-130	
tert-Butyl Alcohol	ug/L	500	469	94	70-130	
tert-Butyl Formate	ug/L	400	412	103	70-130	
Toluene	ug/L	50	44.7	89	70-130	

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### QUALITY CONTROL DATA

Project: BURNETTE UST05289/PACE CA51359  
Pace Project No : 92279175

LABORATORY CONTROL SAMPLE: 1630787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	140	94	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			96	70-130	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

QC Batch: MSV/34677 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92279175003, 92279175004, 92279175005

METHOD BLANK: 1627972 Matrix: Water  
 Associated Lab Samples: 92279175003, 92279175004, 92279175005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/13/15 14:39	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	12/13/15 14:39	
Benzene	ug/L	ND	5.0	1.7	12/13/15 14:39	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/13/15 14:39	
Ethanol	ug/L	ND	200	138	12/13/15 14:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	12/13/15 14:39	
Ethylbenzene	ug/L	ND	5.0	1.6	12/13/15 14:39	
m&p-Xylene	ug/L	ND	10.0	3.1	12/13/15 14:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/13/15 14:39	
Naphthalene	ug/L	ND	5.0	2.0	12/13/15 14:39	
o-Xylene	ug/L	ND	5.0	1.6	12/13/15 14:39	
tert-Amyl Alcohol	ug/L	ND	100	76.8	12/13/15 14:39	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	12/13/15 14:39	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/13/15 14:39	
tert-Butyl Formate	ug/L	ND	50.0	7.3	12/13/15 14:39	
Toluene	ug/L	ND	5.0	1.6	12/13/15 14:39	
Xylene (Total)	ug/L	ND	10.0	2.7	12/13/15 14:39	
1,2-Dichloroethane-d4 (S)	%	93	70-130		12/13/15 14:39	
4-Bromofluorobenzene (S)	%	100	70-130		12/13/15 14:39	
Toluene-d8 (S)	%	102	70-130		12/13/15 14:39	

LABORATORY CONTROL SAMPLE: 1627973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.3	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	70-130	
Benzene	ug/L	50	47.0	94	70-130	
Diisopropyl ether	ug/L	50	43.9	88	70-130	
Ethanol	ug/L	2000	1870	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	91.3	91	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
m&p-Xylene	ug/L	100	93.3	93	70-130	
Methyl-tert-butyl ether	ug/L	50	48.1	96	70-130	
Naphthalene	ug/L	50	44.9	90	70-130	
o-Xylene	ug/L	50	46.7	93	70-130	
tert-Amyl Alcohol	ug/L	1000	921	92	70-130	
tert-Amylmethyl ether	ug/L	100	86.0	86	70-130	
tert-Butyl Alcohol	ug/L	500	456	91	70-130	
tert-Butyl Formate	ug/L	400	374	94	70-130	
Toluene	ug/L	50	42.7	85	70-130	

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### QUALITY CONTROL DATA

Project: BURNETTE UST05289/PACE CA51359  
Pace Project No : 92279175

LABORATORY CONTROL SAMPLE: 1627973

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	140	93	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			95	70-130	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No : 92279175

QC Batch	MSV/34693	Analysis Method	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description	8260 MSV SC
Associated Lab Samples	92279175001, 92279175002, 92279175006, 92279175007, 92279175008, 92279175009, 92279175010		

METHOD BLANK: 1628487 Matrix: Water  
 Associated Lab Samples: 92279175001, 92279175002, 92279175006, 92279175007, 92279175008, 92279175009, 92279175010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/15/15 04:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	12/15/15 04:41	
Benzene	ug/L	ND	5.0	1.7	12/15/15 04:41	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/15/15 04:41	
Ethanol	ug/L	ND	200	138	12/15/15 04:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	12/15/15 04:41	
Ethylbenzene	ug/L	ND	5.0	1.6	12/15/15 04:41	
m&p-Xylene	ug/L	ND	10.0	3.1	12/15/15 04:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/15/15 04:41	
Naphthalene	ug/L	ND	5.0	2.0	12/15/15 04:41	
o-Xylene	ug/L	ND	5.0	1.6	12/15/15 04:41	
tert-Amyl Alcohol	ug/L	ND	100	76.8	12/15/15 04:41	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	12/15/15 04:41	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/15/15 04:41	
tert-Butyl Formate	ug/L	ND	50.0	7.3	12/15/15 04:41	
Toluene	ug/L	ND	5.0	1.6	12/15/15 04:41	
Xylene (Total)	ug/L	ND	10.0	2.7	12/15/15 04:41	
1,2-Dichloroethane-d4 (S)	%	104	70-130		12/15/15 04:41	
4-Bromofluorobenzene (S)	%	100	70-130		12/15/15 04:41	
Toluene-d8 (S)	%	101	70-130		12/15/15 04:41	

LABORATORY CONTROL SAMPLE: 1628488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.5	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1220	122	70-130	
Benzene	ug/L	50	49.2	98	70-130	
Diisopropyl ether	ug/L	50	52.2	104	70-130	
Ethanol	ug/L	2000	2550	127	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	49.0	98	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	49.6	99	70-130	
Naphthalene	ug/L	50	49.8	100	70-130	
o-Xylene	ug/L	50	49.0	98	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	99.8	100	70-130	
tert-Butyl Alcohol	ug/L	500	545	109	70-130	
tert-Butyl Formate	ug/L	400	443	111	70-130	
Toluene	ug/L	50	48.7	97	70-130	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

LABORATORY CONTROL SAMPLE: 1628488

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1628489

Parameter	Units	92279294034 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.4	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	515	129	70-130	
Benzene	ug/L	ND	20	22.4	112	70-130	
Diisopropyl ether	ug/L	ND	20	23.4	117	70-130	
Ethanol	ug/L	ND	800	1810	226	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	40	48.1	120	70-130	
Ethylbenzene	ug/L	ND	20	23.1	115	70-130	
m&p-Xylene	ug/L	ND	40	47.3	118	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.2	111	70-130	
Naphthalene	ug/L	ND	20	23.4	117	70-130	
o-Xylene	ug/L	ND	20	22.6	113	70-130	
tert-Amyl Alcohol	ug/L	ND	400	494	124	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.1	108	70-130	
tert-Butyl Alcohol	ug/L	ND	200	248	124	70-130	
tert-Butyl Formate	ug/L	ND	160	184	115	70-130	
Toluene	ug/L	ND	20	22.6	113	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1628490

Parameter	Units	92279294035 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

SAMPLE DUPLICATE: 1628490

Parameter	Units	92279294035 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	105	2		
4-Bromofluorobenzene (S)	%	101	100	1		
Toluene-d8 (S)	%	100	100	0		

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**QUALITY CONTROL DATA**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

QC Batch: MSV/34736 Analysis Method: EPA 8260  
 QC Batch Method EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92279175011, 92279175013, 92279175014, 92279175015, 92279175016, 92279175017, 92279175018,  
 92279175019, 92279175021, 92279175022, 92279175023, 92279175032, 92279175033, 92279175034,  
 92279175035

METHOD BLANK: 1630461 Matrix: Water  
 Associated Lab Samples: 92279175011, 92279175013, 92279175014, 92279175015, 92279175016, 92279175017, 92279175018,  
 92279175019, 92279175021, 92279175022, 92279175023, 92279175032, 92279175033, 92279175034,  
 92279175035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/16/15 12:03	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	12/16/15 12:03	
Benzene	ug/L	ND	5.0	1.7	12/16/15 12:03	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/16/15 12:03	
Ethanol	ug/L	ND	200	138	12/16/15 12:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	12/16/15 12:03	
Ethylbenzene	ug/L	ND	5.0	1.6	12/16/15 12:03	
m&p-Xylene	ug/L	ND	10.0	3.1	12/16/15 12:03	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/16/15 12:03	
Naphthalene	ug/L	ND	5.0	2.0	12/16/15 12:03	
o-Xylene	ug/L	ND	5.0	1.6	12/16/15 12:03	
tert-Amyl Alcohol	ug/L	ND	100	76.8	12/16/15 12:03	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	12/16/15 12:03	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/16/15 12:03	
tert-Butyl Formate	ug/L	ND	50.0	7.3	12/16/15 12:03	
Toluene	ug/L	ND	5.0	1.6	12/16/15 12:03	
Xylene (Total)	ug/L	ND	10.0	2.7	12/16/15 12:03	
1,2-Dichloroethane-d4 (S)	%	97	70-130		12/16/15 12:03	
4-Bromofluorobenzene (S)	%	103	70-130		12/16/15 12:03	
Toluene-d8 (S)	%	105	70-130		12/16/15 12:03	

LABORATORY CONTROL SAMPLE 1630462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.9	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	903	90	70-130	
Benzene	ug/L	50	51.6	103	70-130	
Diisopropyl ether	ug/L	50	53.1	106	70-130	
Ethanol	ug/L	2000	2040	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
Ethylbenzene	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	96.1	96	70-130	
Methyl-tert-butyl ether	ug/L	50	55.6	111	70-130	
Naphthalene	ug/L	50	45.3	91	70-130	
o-Xylene	ug/L	50	46.8	94	70-130	
tert-Amyl Alcohol	ug/L	1000	862	86	70-130	

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**QUALITY CONTROL DATA**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

LABORATORY CONTROL SAMPLE 1630462

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amylmethyl ether	ug/L	100	90.5	90	70-130	
tert-Butyl Alcohol	ug/L	500	486	97	70-130	
tert-Butyl Formate	ug/L	400	434	108	70-130	
Toluene	ug/L	50	47.1	94	70-130	
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			98	70-130	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No : 92279175

QC Batch: MSV/34762 Analysis Method: EPA 8260  
 QC Batch Method EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92279175012, 92279175020

METHOD BLANK: 1631924 Matrix: Water  
 Associated Lab Samples 92279175012, 92279175020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/18/15 11:27	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	12/18/15 11:27	
Benzene	ug/L	ND	5.0	1.7	12/18/15 11:27	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/18/15 11:27	
Ethanol	ug/L	188J	200	138	12/18/15 11:27	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	12/18/15 11:27	
Ethylbenzene	ug/L	ND	5.0	1.6	12/18/15 11:27	
m&p-Xylene	ug/L	ND	10.0	3.1	12/18/15 11:27	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/18/15 11:27	
Naphthalene	ug/L	ND	5.0	2.0	12/18/15 11:27	
o-Xylene	ug/L	ND	5.0	1.6	12/18/15 11:27	
tert-Amyl Alcohol	ug/L	ND	100	76.8	12/18/15 11:27	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	12/18/15 11:27	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/18/15 11:27	
tert-Butyl Formate	ug/L	ND	50.0	7.3	12/18/15 11:27	
Toluene	ug/L	ND	5.0	1.6	12/18/15 11:27	
Xylene (Total)	ug/L	ND	10.0	2.7	12/18/15 11:27	
1,2-Dichloroethane-d4 (S)	%	103	70-130		12/18/15 11:27	
4-Bromofluorobenzene (S)	%	104	70-130		12/18/15 11:27	
Toluene-d8 (S)	%	102	70-130		12/18/15 11:27	

LABORATORY CONTROL SAMPLE: 1631925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.8	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1160	116	70-130	
Benzene	ug/L	50	51.9	104	70-130	
Diisopropyl ether	ug/L	50	55.6	111	70-130	
Ethanol	ug/L	2000	2350	118	70-130	
Ethyl-tert-butyl ether	ug/L	100	114	114	70-130	
Ethylbenzene	ug/L	50	53.2	106	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	55.4	111	70-130	
Naphthalene	ug/L	50	54.1	108	70-130	
o-Xylene	ug/L	50	51.1	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	565	113	70-130	
tert-Butyl Formate	ug/L	400	443	111	70-130	
Toluene	ug/L	50	51.6	103	70-130	

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### QUALITY CONTROL DATA

Project BURNETTE UST05289/PACE CA51359

Pace Project No 92279175

LABORATORY CONTROL SAMPLE: 1631925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1631952

Parameter	Units	92279316004 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.3	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	656	164	70-130	M1
Benzene	ug/L	ND	20	22.7	114	70-130	
Diisopropyl ether	ug/L	ND	20	23.4	114	70-130	
Ethanol	ug/L	ND	800	1630	203	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	47.1	118	70-130	
Ethylbenzene	ug/L	ND	20	23.2	116	70-130	
m&p-Xylene	ug/L	ND	40	45.6	114	70-130	
Methyl-tert-butyl ether	ug/L	7.2	20	32.0	124	70-130	
Naphthalene	ug/L	ND	20	22.1	111	70-130	
o-Xylene	ug/L	ND	20	22.4	112	70-130	
tert-Amyl Alcohol	ug/L	ND	400	648	162	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	42.9	107	70-130	
tert-Butyl Alcohol	ug/L	ND	200	459	229	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	22.5	112	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE 1631953

Parameter	Units	92279316005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	9.4	9.7	3	30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No.: 92279175

SAMPLE DUPLICATE: 1631953

Parameter	Units	92279316005 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	104	2		
4-Bromofluorobenzene (S)	%	102	101	1		
Toluene-d8 (S)	%	102	100	2		

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**QUALITY CONTROL DATA**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No : 92279175

QC Batch OEXT/39603 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92279175001, 92279175002, 92279175003, 92279175004, 92279175005

METHOD BLANK 1624903 Matrix Water  
 Associated Lab Samples: 92279175001, 92279175002, 92279175003, 92279175004, 92279175005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	12/11/15 02:48	
1-Chloro-2-bromopropane (S)	%	109	60-140		12/11/15 02:48	

LABORATORY CONTROL SAMPLE & LCSD 1624904 1624905

Parameter	Units	Spike Conc	LCS Result	LCSD Result	% Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.28	0.28	98	96	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				107	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624906 1624907

Parameter	Units	92278921034 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	28	28	0.23	0.27	82	96	60-140	16	20	
1-Chloro-2-bromopropane (S)	%						90	104	60-140			

SAMPLE DUPLICATE: 1624908

Parameter	Units	92278921040 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	99	94	6		

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**QUALITY CONTROL DATA**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

QC Batch	OEXT/39604	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description	GCS 8011 EDB DBCP
Associated Lab Samples.	92279175006, 92279175007, 92279175008, 92279175009, 92279175010, 92279175011, 92279175012, 92279175013, 92279175014, 92279175015, 92279175016, 92279175017, 92279175018, 92279175019, 92279175020, 92279175021, 92279175022, 92279175023, 92279175024, 92279175025		

METHOD BLANK:	1624911	Matrix:	Water
Associated Lab Samples	92279175006, 92279175007, 92279175008, 92279175009, 92279175010, 92279175011, 92279175012, 92279175013, 92279175014, 92279175015, 92279175016, 92279175017, 92279175018, 92279175019, 92279175020, 92279175021, 92279175022, 92279175023, 92279175024, 92279175025		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	12/11/15 07 09	
1-Chloro-2-bromopropane (S)	%	89	60-140		12/11/15 07 09	

Parameter	Units	1624912		1624913		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc	LCS Result	LCS Result	LCS % Rec						
1,2-Dibromoethane (EDB)	ug/L	.29	0.33	0.27	112	92	60-140	21	20	R1	
1-Chloro-2-bromopropane (S)	%				93	89	60-140				

Parameter	Units	1624914		1624915		MS	MSD	MS	MSD	% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		92279175006 Result	MS Spike Conc	MSD Spike Conc	MS Result										
1,2-Dibromoethane (EDB)	ug/L	ND	.28	28	0.32	0.32	114	116	60-140	2	20				
1-Chloro-2-bromopropane (S)	%						90	91	60-140						

Parameter	Units	92279175009		Dup Result	RPD	Max RPD	Qualifiers
		Result	Result				
1,2-Dibromoethane (EDB)	ug/L	ND	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	95	93	93	2		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

QC Batch: OEXT/39659 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92279175027, 92279175028, 92279175029, 92279175030, 92279175031, 92279175032, 92279175034

METHOD BLANK: 1626752 Matrix: Water  
 Associated Lab Samples: 92279175027, 92279175028, 92279175029, 92279175030, 92279175031, 92279175032, 92279175034

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	12/11/15 23 19	
1-Chloro-2-bromopropane (S)	%	82	60-140		12/11/15 23 19	

LABORATORY CONTROL SAMPLE & LCSD: 1626753

Parameter	Units	1626754		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc	LCS Result						
1,2-Dibromoethane (EDB)	ug/L	.28	0.28	98	92	60-140	4	20	
1-Chloro-2-bromopropane (S)	%			89	83	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1626755

Parameter	Units	92279115020		1626756		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc	MSD Spike Conc	MS Result	MSD Result						
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.31	0.28	110	102	60-140	8	20
1-Chloro-2-bromopropane (S)	%					89	87	60-140			

SAMPLE DUPLICATE 1626757

Parameter	Units	92279115022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	81	85	5		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

QC Batch: OEXT/39716 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92279175026, 92279175035

METHOD BLANK: 1628751 Matrix: Water  
 Associated Lab Samples: 92279175026, 92279175035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	12/14/15 22.29	
1-Chloro-2-bromopropane (S)	%	96	60-140		12/14/15 22.29	

LABORATORY CONTROL SAMPLE & LCSD. 1628752

1628753

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.35	0.28	124	98	60-140	20	20	
1-Chloro-2-bromopropane (S)	%				123	94	60-140			

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

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project BURNETTE UST05289/PACE CA51359  
Pace Project No. 92279175

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot  
ND - Not Detected at or above adjusted reporting limit  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
MDL - Adjusted Method Detection Limit  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270 The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.  
C9 Common Laboratory Contaminant.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
R1 RPD value was outside control limits

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project BURNETTE UST05289/PACE CA51359  
 Pace Project No 92279175

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279175001	MW-1	EPA 8011	OEXT/39603	EPA 8011	GCSV/23502
92279175002	MW-2	EPA 8011	OEXT/39603	EPA 8011	GCSV/23502
92279175003	MW-2D	EPA 8011	OEXT/39603	EPA 8011	GCSV/23502
92279175004	MW-3	EPA 8011	OEXT/39603	EPA 8011	GCSV/23502
92279175005	MW-4	EPA 8011	OEXT/39603	EPA 8011	GCSV/23502
92279175006	MW-5	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175007	MW-7	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175008	MW-7D	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175009	MW-8	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175010	MW-9	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175011	MW-10	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175012	MW-11	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175013	MW-13	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175014	MW-14	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175015	MW-14D	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175016	MW-15	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175017	MW-16	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175018	MW-17	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175019	MW-17D	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175020	MW-18	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175021	MW-19	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175022	MW-19D	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175023	MW-20	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175024	SW-1	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175025	SW-2	EPA 8011	OEXT/39604	EPA 8011	GCSV/23503
92279175026	SW-3	EPA 8011	OEXT/39716	EPA 8011	GCSV/23544
92279175027	SW-4	EPA 8011	OEXT/39659	EPA 8011	GCSV/23520
92279175028	SW-5	EPA 8011	OEXT/39659	EPA 8011	GCSV/23520
92279175029	WSW-1	EPA 8011	OEXT/39659	EPA 8011	GCSV/23520
92279175030	WSW-3	EPA 8011	OEXT/39659	EPA 8011	GCSV/23520
92279175031	WSW-4	EPA 8011	OEXT/39659	EPA 8011	GCSV/23520
92279175032	FIELD BLANK	EPA 8011	OEXT/39659	EPA 8011	GCSV/23520
92279175034	DUPLICATE MW-3	EPA 8011	OEXT/39659	EPA 8011	GCSV/23520
92279175035	DUPLICATE MW-4	EPA 8011	OEXT/39716	EPA 8011	GCSV/23544
92279175024	SW-1	EPA 8260	MSV/34711		
92279175025	SW-2	EPA 8260	MSV/34711		
92279175026	SW-3	EPA 8260	MSV/34743		
92279175027	SW-4	EPA 8260	MSV/34743		
92279175028	SW-5	EPA 8260	MSV/34711		
92279175029	WSW-1	EPA 8260	MSV/34727		
92279175030	WSW-3	EPA 8260	MSV/34727		
92279175031	WSW-4	EPA 8260	MSV/34727		
92279175001	MW-1	EPA 8260	MSV/34693		
92279175002	MW-2	EPA 8260	MSV/34693		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: BURNETTE UST05289/PACE CA51359  
 Pace Project No. 92279175

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92279175003	MW-2D	EPA 8260	MSV/34677		
92279175004	MW-3	EPA 8260	MSV/34677		
92279175005	MW-4	EPA 8260	MSV/34677		
92279175006	MW-5	EPA 8260	MSV/34693		
92279175007	MW-7	EPA 8260	MSV/34693		
92279175008	MW-7D	EPA 8260	MSV/34693		
92279175009	MW-8	EPA 8260	MSV/34693		
92279175010	MW-9	EPA 8260	MSV/34693		
92279175011	MW-10	EPA 8260	MSV/34736		
92279175012	MW-11	EPA 8260	MSV/34762		
92279175013	MW-13	EPA 8260	MSV/34736		
92279175014	MW-14	EPA 8260	MSV/34736		
92279175015	MW-14D	EPA 8260	MSV/34736		
92279175016	MW-15	EPA 8260	MSV/34736		
92279175017	MW-16	EPA 8260	MSV/34736		
92279175018	MW-17	EPA 8260	MSV/34736		
92279175019	MW-17D	EPA 8260	MSV/34736		
92279175020	MW-18	EPA 8260	MSV/34762		
92279175021	MW-19	EPA 8260	MSV/34736		
92279175022	MW-19D	EPA 8260	MSV/34736		
92279175023	MW-20	EPA 8260	MSV/34736		
92279175032	FIELD BLANK	EPA 8260	MSV/34736		
92279175033	TRIP BLANK	EPA 8260	MSV/34736		
92279175034	DUPLICATE MW-3	EPA 8260	MSV/34736		
92279175035	DUPLICATE MW-4	EPA 8260	MSV/34736		

**REPORT OF LABORATORY ANALYSIS**

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Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document Number:  
**F-CHR-CS-003-rev.16.1**

Document Revised: November 17, 2015  
 Page 1 of 2\*  
 Issuing Authority:  
 Pace Huntersville Quality Office

Client Name: SCURC-40T

\* Page 2 of 2 is for Internal Use Only

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

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

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

Thermometer Used: IR Gun T1505 Type of Ice: Wet Blue None  Samples on Ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 5.4 °C

Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 12-9-15 KW

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no label &amp; time on bottles</u>
-Includes date/time/ID/Analysis Matrix: <u>LOT</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>16 12-9-15</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>17 12-9-15</u>
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

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

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

SCURF Review: TC Date: 12/9/15  
 SRF Review: TC Date: 12/10/15

WO#: 92279175



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

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

**Section A**  
Required Client Information:

Company: EDHEC-UST  
Address: 2600 Bull Street  
Columbia, SC 29201  
Email To: brantj@edhec-sc.gov  
Phone: 803-898-0606 Fax: 803-898-0673  
Requested Due Date/TAT:

**Section B**  
Required Project Information:

Report To: J. Bryant-UST  
Copy To:  
Purchase Order No.: 4600422513  
Project Name: Barnette's Site Sdn.  
Project Number: UST 05289/PACE 51359

**Section C**  
Invoice Information:

Attention: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Site Location:  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
Requested Analysis Filtered (Y/N)

Page: 1 of 4  
1902349  
Page 68 of 71

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab ID.
			COMPOSITE START	COMPOSITE END/PER					Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other					
1	MW-1	VT G			12/8/15	12:47	6														001
2	MW-2	VT G			12/8/15	13:07	6														002
3	MW-2D	VT G			12/8/15	13:15	6														003
4	MW-3	VT G			12/8/15	12:32	6														004
5	MW-4	VT G			12/8/15	12:02	6														005
6	MW-5	VT G			12/8/15	12:20	6														006
7	MW-6	VT G			12/8/15	12:20	6														007
8	MW-7	VT G			12/8/15	12:05	6														008
9	MW-7D	VT G			12/8/15	12:08	6														009
10	MW-8	VT G			12/8/15	12:17	6														010
11	MW-9	VT G			12/8/15	11:44	6														011
12	MW-10	VT G			12/8/15	11:41	6														011

**ADDITIONAL COMMENTS**

RELINQUISHED BY / AFFILIATION: Peter J. Vile / MEET DATE: 12/8/15 TIME: 15:00

ACCEPTED BY / AFFILIATION: Yam Johnson DATE: 12/9/15 TIME: 15:47

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Peter J. Vile DATE Signed (MANDATORY): 12/08/15

SIGNATURE of SAMPLER: Peter J. Vile



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

Page: 1 of 4  
 1902349

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SDHEC-UST</u>		Report To: <u>J. Bryant - UST</u>		Attention:	
Address: <u>2600 Bull Street</u>		Copy To:		Company Name:	
<u>Columbia, SC 29201</u>		Purchase Order No.: <u>4600422573</u>		Address:	
Email To: <u>bryantj@dhc.sc.gov</u>		Project Name: <u>Burnette's Svc. Sta.</u>		Pace Quote Reference:	
Phone: <u>803-898-0606</u> Fax: <u>803-898-0673</u>		Project Number: <u>UST 05289 / PA 51359</u>		Pace Project Manager: <u>T. Carter</u>	
Requested Due Date/TAT:		Project Number:		Pace Profile #: <u>849-1</u>	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
				Site Location	
				STATE: <u>SC</u> <u>Jasper</u>	

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>					Methanol	Other
					DATE	TIME	DATE	TIME														
1	MW-1		WTG		12/8/15	12:47		6											Odor 001			
2	MW-2					12:07													No odor 002			
3	MW-2D					13:15													No odor 003			
4	MW-3					12:32													Odor; dup'd 004			
5	MW-4					12:02													Odor; dup'd 005			
6	MW-5		WTG		12/8/15	12:20		6											No odor 006			
7	MW-6																		Not sampled			
8	MW-7		WTG		12/8/15	12:05		6											No odor 007			
9	MW-7D					12:08													No odor 008			
10	MW-8					12:17													No odor 009			
11	MW-9					11:44													Slight odor 010			
12	MW-10		WTG		12/8/15	11:41		6											No odor 011			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Peter J. Wille / MECI	12/8/15	16:00	Jan Johnson	12-9-15	7:42	
	Jan Johnson	12-9-15	9:15	Jan Johnson	12-9-15	15:47	4 N 4

ORIGINAL	SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PRINT Name of SAMPLER: <u>Peter J. Wille</u>					
	SIGNATURE of SAMPLER: <u>Peter J. Wille</u>					
		DATE Signed (MM/DD/YY): <u>12/08/15</u>				











Catherine E. Heigel, Director

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

05289



MAR 3 2016

**BRYAN SHANE**  
**MIDLANDS ENVIRONMENTAL CONSULTANTS**  
**PO BOX 854**  
**LEXINGTON SC 29071**

Re: **Site Specific Work Plan Request**  
 Groundwater Sampling Contract  
 Solicitation # IFB-5400007403, PO#4600462997

Dear Mr. Shane:


In accordance with bid solicitation # IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), Revision 3.0 it is requested that you submit a Site Specific Work Plan for each site listed below. The plans must be submitted **within 15 business days** to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved.

UST Permit	Site Name	County	# samples and requested analysis*	Project Manager
14887	Hardees	Spartanburg	25-BTEXMN, DCA, Oxygenates and EDB	M. Milenkova
01446	Derst Baking Company	Charleston	25-BTEXMN, 1-EDB (Only in DW-2)	M. Hornosky
18662	Bay Creek Villas	Colleton	26-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
09983	Country Store	Beaufort	8-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
16428	Dr Tire	Beaufort	22-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
15170	Silken Webb Flower and Gift	Beaufort	17-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
18234	Busseys Grocery	McCormick	25-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
04887	Warren Green	Jasper	25-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
10658	Joker Joes Truck Stop	Jasper	30-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
05289	Burnettes Service Station	Jasper	33-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
04735	Pavan Food Store	Greenwood	20-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
03538	Coastal 76 Truck Stop	Florence	30-BTEXMN, DCA, Oxygenates and EDB	M. Milenkova
08344	Duncan Station	Spartanburg	18-BTEXMN, DCA, Oxygenates and EDB	M. Rivers
19646	Former Dabneys Amoco	Kershaw	7-BTEXMN, DCA, Oxygenates and EDB	K. Barnes

\*The number of samples do not include trip blanks, field blanks, or field duplicate

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 898-0606 or [bryantjc@dhec.sc.gov](mailto:bryantjc@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'JCB', written in a cursive style.

John C. Bryant, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

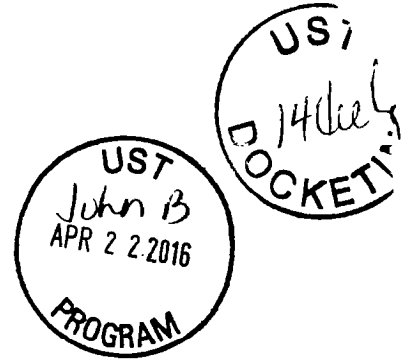
enc: Site Information Packages

cc: Technical Files

**Midlands**  
 **Environmental**  
**Consultants, Inc.**

April 21, 2016

Mr. John Bryant, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
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: Site-Specific Work Plan  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 16-5529  
Certified Site Rehabilitation Contractor UCC-0009

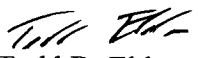
Dear Mr. Bryant,

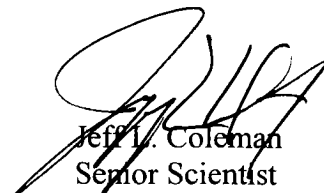
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On April 18, 2016, MECI personnel performed a site visit to the subject site 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.**

  
Todd D. Elder  
Staff Hydrogeologist

  
Jeff L. Coleman  
Senior Scientist



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

To: Mr. John Bryant (SCDHEC Project Manager)  
 From: Mr. Jeff Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Burnette's Service Station UST Permit #: 05289  
 Facility Address: 1577 N Jacob Smart Blvd, Ridgeland, SC 29936  
 Responsible Party: Fate C Burnette Phone: 803-726-5098  
 RP Address: PO BOX 1908, Ridgeland, SC 29936-0443  
 Property Owner (if different): NA  
 Property Owner Address: NA  
 Current Use of Property: Auto Garage

**Scope of Work** (Please check all that apply)

- |                                 |   |  |                              |
|---------------------------------|---|--|------------------------------|
| <input type="checkbox"/> IGWA   | <input type="checkbox"/> Tier II                      | <input checked="" type="checkbox"/> Groundwater Sampling | <input type="checkbox"/> GAC |
| <input type="checkbox"/> Tier I | <input type="checkbox"/> Monitoring Well Installation | <input type="checkbox"/> Other _____                     |                              |

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

- |  |  |                                      |   |
|--|--|--------------------------------------|---|
| <input checked="" type="checkbox"/> BTEXNMDCA (8260B)  | <input type="checkbox"/> Lead          | <input type="checkbox"/> BOD         | <input type="checkbox"/> Methane        |
| <input checked="" type="checkbox"/> Oxygenates (8260B) | <input type="checkbox"/> 8 RCRA Metals | <input type="checkbox"/> Nitrate     | <input type="checkbox"/> Ethanol        |
| <input checked="" type="checkbox"/> EDB (8011)         | <input type="checkbox"/> TPH           | <input type="checkbox"/> Sulfate     | <input type="checkbox"/> Dissolved Iron |
| <input type="checkbox"/> PAH (8270D)                   | <input type="checkbox"/> pH            | <input type="checkbox"/> Other _____ |   |

Soil:

- |                                |  |  |                                     |
|--------------------------------|--|--|-------------------------------------|
| <input type="checkbox"/> BTEXN | <input type="checkbox"/> 8 RCRA Metals       | <input type="checkbox"/> TPH-DRO (3550B/8015B) | <input type="checkbox"/> Grain Size |
| <input type="checkbox"/> PAH   | <input type="checkbox"/> Oil & Grease (9071) | <input type="checkbox"/> TPH-GRO (5030B/8015B) | <input type="checkbox"/> TOC        |

Air:

- BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	<u>4</u> Water Supply Wells	_____ Air	<u>1</u> Field Blank
<u>24</u> Monitoring Wells	<u>5</u> Surface Water	<u>2</u> Duplicate	<u>1</u> 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

Monitoring Well development method (consistent with SOP): \_\_\_\_\_

Comments, if warranted:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

UST Permit #: 05289 Facility Name: Burnette's Service Station

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 4/1/16 Field Work Completion: 5/18/16  
Report Submittal: 6/18/16 # 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: 250.0 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

- During the initial site visit, MW-20 was not located and is thought to be buried. If it is found during the sampling event, it will be sampled accordingly.
- Water Supply Well WSW-2 was found to be inoperable.
- All other monitoring wells, water supply wells and surface waters were located.
- All monitoring wells will be purged prior to sample collection.
- All samples will be analyzed for BTEXNM, DCA, Oxy's and EDB.

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





**ASSESSMENT COMPONENT INVOICE  
SOUTH CAROLINA**

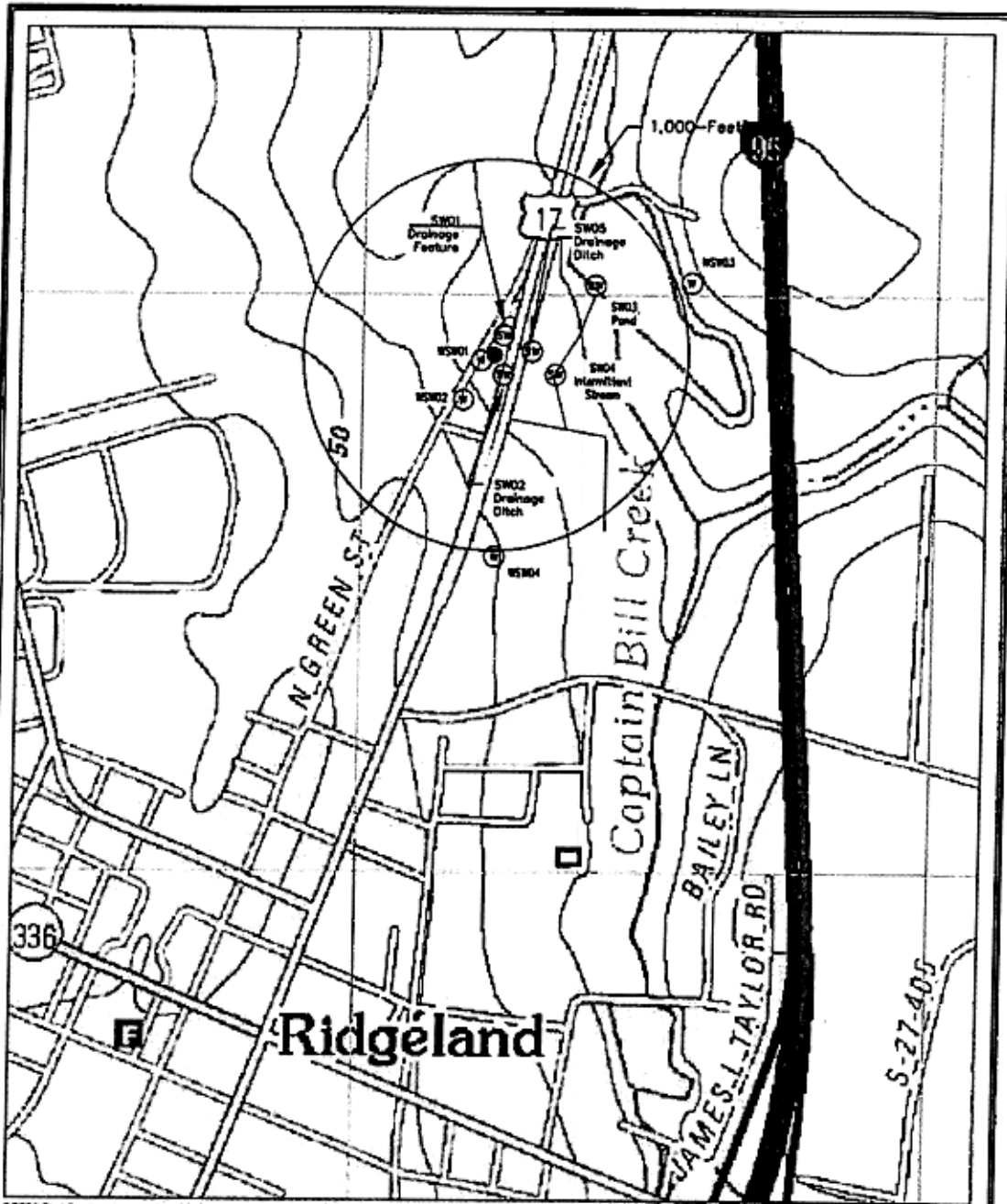
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600328425**

**Facility Name:** Burnette's Service Station

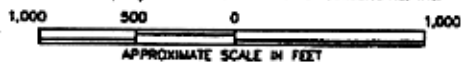
**UST Permit #:** 05289

**Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$0.00	\$0.00
C1. QAPP Appendix B		each	\$0.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$0.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$350.00	\$700.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	24	per well	\$16.00	\$384.00
B1. Air or Vapors		samples	\$0.00	\$0.00
C1. Water Supply	9	samples	\$5.00	\$45.00
D1. Groundwater No Purge		per well	\$8.00	\$0.00
E1. Gauge Well only		per well	\$0.00	\$0.00
F1. Sample Below Product		per well	\$0.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	1	each	\$10.00	\$10.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	250	gallons	\$1.00	\$250.00
BB. Free Product		gallons	\$0.00	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>		each	\$0.00	\$0.00
<b>18. Miscellaneous (attach receipts)</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Trip Blank	1	each	\$10.00	\$10.00
Data Table		each	\$25.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$75.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$75.00	\$0.00
D1. Replace Well Vault		each	\$75.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,399.00</b>



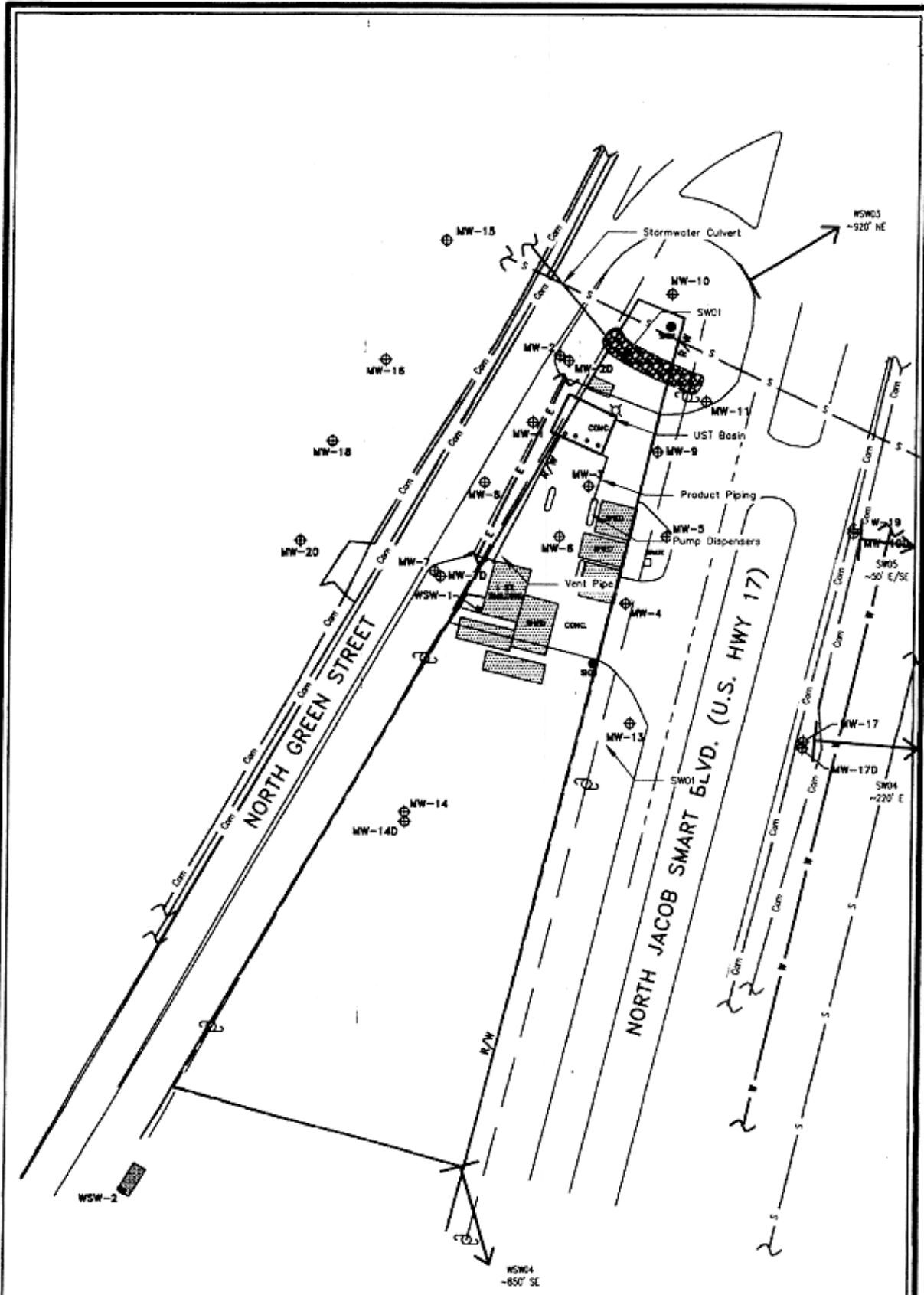
REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1  
 Site Location Map by Midanda Environmental Consultants, Inc.



- Approximate Site Location
- SW Surface Water
- W Private Water Supply Well

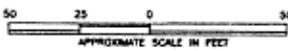


Title	Topographic Site Location Map	
Project	Burnette's Service Station (UST Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	<b>petra-tech</b> Figure No. 1
REV.	02/24/2015	
Job No.	J14-DB0-A	ENVIRONMENTAL ENGINEERS & CONSULTANTS



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- Groundwater Monitoring Well
- Approximate Location of Underground Electric Line
- Approximate Location of Underground Communication (Data/Phone) Line
- Approximate Location of Underground Water Line
- Approximate Location of Underground Gas Line
- Approximate Location of Underground Sewer/Stormwater Line
- Approximate Property Boundary



Title	Site Base Map
Project	Burnette's Service Station (UST Permit #02009) 11572 N. Jacob Smart Boulevard Fidgetown, South Carolina Jasper County
Date	02/25/2015
Job No.	J4-080-A
<b>petra-tech</b> ENGINEERING & SURVEYING	
Figure No.	3



Catherine E. Heigel, Director

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



**MAY 17 2016**

**BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**

**Re: Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation # IFB-5400007403, PO#4600484321  
Burnettes Service Station, 11577 North Jacob Smart Blvd, Ridgeland, SC  
UST Permit #05289; CA #52236 (Pace CA #52237)  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved ACQAP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone 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 UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. The Agency 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. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

**Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to John Bryant, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0606 or via e-mail at bryantjc@dhec.sc.gov. If you have any contract specific questions, please contact John Bryant at (803) 898-0606 or via e-mail at bryantjc@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'JCB', written in a cursive style.

John C. Bryant, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: John Bryant, Corrective Action Section, UST Management Division (w/o encs.)  
Trey Carter, Pace Analytical Services, 9800 Kinsey Ave, Ste 100, Huntersville, NC, 28078 (w/  
approved CA)  
Technical Files (w/encs.)

**Approved Cost Agreement 52237**

Facility 05289 BURNETTES SERVICE STATION

BRYANTJC

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	37 0000	\$19 000	703 00
		F1 EDB BY 8011	36.0000	\$18 000	648 00
<b>Total Amount</b>					1,351 00

**Approved Cost Agreement 52236**

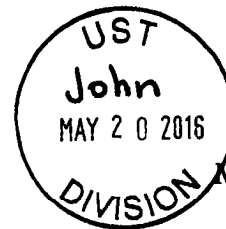
Facility 05289 BURNETTES SERVICE STATION

BRYANTJC

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB					
		B1 PERSONNEL	2 0000	\$350 000	700 00
10 SAMPLE COLLECTION					
		A1 GROUNDWATER (PURGE)	24.0000	\$16 000	384 00
		C1 WATER SUPPLY	9.0000	\$5.000	45 00
		H1 FIELD BLANK	1 0000	\$10.000	10.00
17 DISPOSAL					
		AA WASTEWATER	250 0000	\$1.000	250 00
18 MISCELLANEOUS					
		SITE SPECIFIC WORK PLAN	1 0000	\$0.000	0 00
		TRIP BLANK	1.0000	\$10 000	10 00
<b>Total Amount</b>					<b>1,399 00</b>

 **Midlands  
Environmental  
Consultants, Inc.**



May 17, 2016

Mr. John C. Bryant, 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  
Burnette's Service Station  
11577 N Jacob Smart Blvd  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289; CA # 52236  
MECI Project Number 16-5529  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Bryant,

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).

#### **PROJECT INFORMATION**

The subject site (Burnette's Service Station) is located at 11577 North Jacob Smart Blvd, Ridgeland, Jasper County, South Carolina. The subject site formerly maintained two 4,000 gasoline underground storage tanks (UST's), one 6,000 gallon gasoline UST, and one 3,000 gallon diesel UST. These USTs were reportedly abandoned at an unknown date. The South Carolina Department of Health and Environmental Control (SCDHEC) reported a release of petroleum product in December of 1991 and confirmed the release of petroleum in March of 1992. The subject site is currently rated a Class 2AB.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

#### **MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS**

On May 13th, 2016, MECI personnel collected groundwater samples from twenty-three (23) monitoring wells, five (5) surface water features, and two (2) water supply wells at the referenced site. One (1) monitoring well (MW-6) was gauged and found to contain free-phase petroleum



product, and was not sampled. Water supply well WSW-2 was found to be inactive during the sampling event, and was unable to be sampled. MECI personnel were denied access to WSW-4 and could not collect a sample. Based on the request by SCDHEC personnel, all monitoring wells were to be purged prior to sample collection. Twenty-three (23) monitoring wells were purged prior to sample collection.

Prior to sampling, 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. Purging was completed by bailing at least five well volumes of water from the well, or until 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, water temperature, and turbidity were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), a YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI/TPW 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 most recent revision of the SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent revision of 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:

Monitoring Well	Purge	No Purge	Not Located	Abandoned	No Access	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Nitrate (EPA Method 335.2)	Methane (RSK Method)
Analyte Sampled													
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-2D	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
MW-6						X							
MW-7	X						X	X	X	X			
MW-7D	X						X	X	X	X			
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
MW-11	X						X	X	X	X			

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane PAH = polycyclic aromatic hydrocarbons


Monitoring Well	Purge	No Purge	Not Sampled	Abandoned	No Access	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Nitrate (EPA Method 335.2)	Methane (RSK Method)
<b>Analyte Sampled</b>													
MW-13	X						X	X	X	X			
MW-14	X						X	X	X	X			
MW-15	X						X	X	X	X			
MW-16	X						X	X	X	X			
MW-17	X						X	X	X	X			
MW-17D	X						X	X	X	X			
MW-18	X						X	X	X	X			
MW-19	X						X	X	X	X			
MW-19D	X						X	X	X	X			
MW-20	X						X	X	X	X			
SW-1							X	X	X	X			
SW-2							X	X	X	X			
SW-3							X	X	X	X			
SW-4							X	X	X	X			
SW-5							X	X	X	X			
WSW-1							X	X	X	X			
WSW-2			X										
WSW-3							X	X	X	X			
WSW-4					X								
DUP 1 (MW-8)							X	X	X	X			
DUP 2 (MW-1)							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			

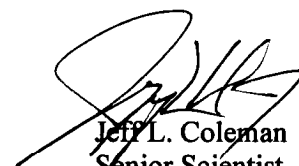
Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane PAH = polycyclic aromatic hydrocarbons

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 182.50 gallons of purge water was disposed of in this manner on 5/13/16. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
Midlands Environmental Consultants, Inc.

  
Todd D. Elder  
Staff Hydrogeologist

  
Jeff L. Coleman  
Senior Scientist

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
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? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format?(Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format?(Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	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		

**Site Activity Summary**

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** J. Bryant  
**Field Personnel:** J. Phillips, C. Hanson, C. Phillips, P. Wylie



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1	Y	5/13/16	13:05	2-12	***	2.66	***	SHEEN	8.00	Odor; SHEEN=visible petroleum sheen on purged water, field readings not taken; Duplicated as DUP-2
MW-2	Y	5/13/16	13.05	3.68-13.68	***	3.64	***	0.66	8.50	No Odor
MW-2D	Y	5/13/16	13 18	24.80-29.80	***	4.18	***	3.09	5.00	No Odor
MW-3	Y	5/13/16	13:00	3.12-13.12	***	2.43	***	SHEEN	9.00	Odor; SHEEN=visible petroleum sheen on purged water, field readings not taken
MW-4	Y	5/13/16	12:50	3.59-13.59	***	2.35	***	1.09	9.50	No Odor
MW-5	Y	5/13/16	13:15	3.66-13.66	***	1.89	***	0.82	10.00	No Odor
MW-6	N	5/13/16	PROD	3.29-13.29	3.04	3.66	0.62	PROD	PROD	PROD=Not sampled-Free Phase Petroleum Product, 0.62ft thickness
MW-7	Y	5/13/16	12 30	3.75-13.75	***	3.03	***	0.87	9.00	No Odor
MW-7D	Y	5/13/16	12 18	27 29-32.29	***	4.62	***	1.96	5.00	No Odor
MW-8	Y	5/13/16	12.45	3.45-13.45	***	2.31	***	SHEEN	9.50	Odor; SHEEN=visible petroleum sheen on purged water, field readings not taken; Duplicated as DUP-1
MW-9	Y	5/13/16	13:40	3.76-13.76	***	2.21	***	1.72	10.00	No Odor
MW-10	Y	5/13/16	11:30	3.42-13.42	***	1.27	***	0.98	10.00	No Odor
MW-11	Y	5/13/16	14:05	3.65-13.65	***	1.34	***	0.52	9.00	No Odor
MW-13	Y	5/13/16	12:20	3.62-13.62	***	1.28	***	1.31	9.00	No Odor
MW-14	Y	5/13/16	11:35	3.72-13.72	***	1.50	***	1.36	9.00	No Odor
									111.50	

**Site Activity Summary**

UST Permit #: 05289  
 Facility Name: Burnette's Station  
 County: J. Bryant  
 Field Personnel: J Phillips, C. Hanson, C. Phillips, P. Wylie



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-14D	Y	5/13/16	11:48	18.57-23.57	***	2.38	***	0.91	5.00	No Odor; Dry @ 5.0 gallons
MW-15	Y	5/13/16	11:20	3.64-13.64	***	1.55	***	1.07	10.00	No Odor
MW-16	Y	5/13/16	11:00	1.85-11.85	***	1.81	***	2.14	8.50	No Odor; Stick-up height=3.30
MW-17	Y	5/13/16	12:00	3.71-13.71	***	2.51	***	0.66	9.50	No Odor
MW-17D	Y	5/13/16	11:37	25.31-30.31	***	3.88	***	1.25	5.50	No Odor; Dry @ 5.50 gallons
MW-18	Y	5/13/16	11:00	2.38-12.38	***	1.61	***	2.51	9.00	No Odor; Stick-up height=2.30
MW-19	Y	5/13/16	11:30	3.80-13.80	***	2.84	***	0.51	9.00	No Odor
MW-19D	Y	5/13/16	11:21	26.94-31.94	***	3.83	***	0.57	5.00	No Odor
MW-20	Y	5/13/16	11:00	3.17-13.17	***	1.89	***	1.74	9.50	No Odor
SW-1	Y	5/13/16	13:15	***	***	***	***	***	***	Collected from ditch near MW-2D
SW-2	Y	5/13/16	13:20	***	***	***	***	***	***	Collected from ditch near MW-13
SW-3	Y	5/13/16	13:30	***	***	***	***	***	***	Collected from pond
SW-4	Y	5/13/16	13:50	***	***	***	***	***	***	Collected from stream ~220ft east of site
SW-5	Y	5/13/16	13:40	***	***	***	***	***	***	Collected from ditch ~ 50 east of site
WSW-1	Y	5/13/16	13:30	***	***	***	***	***	***	11577 N Jacob Smart Blvd (onsite), Collected from spigot near well
									71.00	



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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips		
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77		
<b>Quality Assurance</b>									
Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-1	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			2-12	Total Well Depth (TWD) (ft.):		12.00	
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			2.65	Free Product Thickness (ft.):		Not Detected	
Length of water column (LWC = TWD - DGW) (ft.):	9.34	1 casing volume (CV = LWC x C) (gals.):			1.52	5 casing volumes (5 x CV) (gals.):		7.61	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.52	3.04	4.57	6.09	7.61			
Time (military)	12:50	12:53	12:56	12:59	13:02	13:05			
PH (s.u.)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN			
Specific Conductivity (µS/cm)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN			
Water Temperature (°C)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN			
Dissolved Oxygen (mg/L)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN			
Turbidity (NTU)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN			
<b>Sampling Data</b>									
Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	13:05	Duplicate: Y or N	Y	If yes, Duplicate Time:	13:05	Total Gallons Purged:	8.00
Notes: Odor, SHEEN=visible petroleum sheen on purged water, field readings not taken									
Duplicated as DUP-2									



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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-2	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Baier
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.68-13.68	Total Well Depth (TWD) (ft.):	13.68
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	3.64	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	10.04	1 casing volume (CV = LWC x C) (gals.):	1.64	5 casing volumes (5 x CV) (gals.):	8.18

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.64	3.27	4.91	6.55	8.18		
Time (military)	12:50	12:53	12:56	12:59	13:02	13:05		
PH (s.u.)	6.11	5.76	5.59	5.53	5.48	5.46		
Specific Conductivity (µS/cm)	509	527	534	540	537	541		
Water Temperature (°C)	24.7	24.1	23.6	23.2	22.9	22.8		
Dissolved Oxygen (mg/L)	0.66	0.83	0.77	0.80	0.85	0.89		
Turbidity (NTU)	21.47	59.30	90.25	138.6	172.9	206.1		

### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	13:05	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	8.50
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-2D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	24.80-29.80	Total Well Depth (TWD) (ft.):	29.80
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	4.18	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	25.62	1 casing volume (CV = LWC x C) (gals.):	4.18	5 casing volumes (5 x CV) (gals.):	20.88

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.18	8.35	12.53	16.70	20.88		5.00
Time (military)	13:10	13:05						13:08
PH (s.u.)	6.35	6.21						6.15
Specific Conductivity (µS/cm)	468	441						432
Water Temperature (°C)	23.4	22.8						22.4
Dissolved Oxygen (mg/L)	3.09	3.17						3.22
Turbidity (NTU)	6.39	23.06						35.18

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	13:08	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	5.00
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Notes: No Odor; Dry @ 5.0 gallons

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-3	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.12-13.12	Total Well Depth (TWD) (ft.):	13.12
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.43	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	10.69	1 casing volume (CV = LWC x C) (gals.):	1.74	5 casing volumes (5 x CV) (gals.):	8.71

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.74	3.48	5.23	6.97	8.71		
Time (military)	12.40	12.44	12.48	12.52	12.56	13.00		
PH (s.u.)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN		
Specific Conductivity (µS/cm)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN		
Water Temperature (°C)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN		
Dissolved Oxygen (mg/L)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN		
Turbidity (NTU)	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	13:00	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.00
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Notes: Odor; SHEEN-visible petroleum sheen on samples, field readings not taken

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-4	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.59-13.59	Total Well Depth (TWD) (ft.):	13.59
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.35	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD – DGW) (ft.):	11.24	1 casing volume (CV = LWC x C) (gals.):	1.83	5 casing volumes (5 x CV) (gals.):	9.16

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.83	3.66	5.50	7.33	9.16		
Time (military)	12:30	12:34	12:38	12:42	12:46	12:50		
PH (s.u.)	6.60	6.25	6.08	5.97	5.90	5.87		
Specific Conductivity (µS/cm)	119.2	131.6	138.4	135.7	139.1	137.0		
Water Temperature (°C)	23.1	22.5	22.1	22.0	21.9	21.9		
Dissolved Oxygen (mg/L)	1.09	1.18	1.22	1.25	1.27	1.29		
Turbidity (NTU)	19.83	45.27	68.19	102.6	129.5	154.0		

### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	12:50	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.50
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Notes: \_\_\_\_\_  
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### Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-5	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.60-13.66	Total Well Depth (TWD) (ft.):	13.66
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.89	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	11.77	1 casing volume (CV = LWC x C) (gals.):	1.92	5 casing volumes (5 x CV) (gals.):	9.59

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.92	3.84	5.76	7.67	9.59		
Time (military)	12:55	12:59	13:03	13:07	13:11	13:15		
PH (s.u.)	6.26	6.31	6.28	6.17	6.09	6.04		
Specific Conductivity (µS/cm)	508	513	521	536	550	547		
Water Temperature (°C)	25.70	24.90	24.30	23.60	23.20	22.90		
Dissolved Oxygen (mg/L)	0.82	0.97	0.86	0.73	0.60	0.54		
Turbidity (NTU)	69.28	113.4	150.2	182.1	229.6	195.0		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	13:15	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-7	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.75-13.75	Total Well Depth (TWD) (ft.):	13.66
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	3.03	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD – DGW) (ft.):	10.63	1 casing volume (CV = LWC x C) (gals.):	1.73	5 casing volumes (5 x CV) (gals.):	8.66

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.73	3.47	5.20	6.93	8.66		
Time (military)	12:55	12:59	13:03	13:07	13:11	13:15		
PH (s.u.)	6.26	6.31	6.28	6.17	6.09	6.04		
Specific Conductivity (µS/cm)	508	513	521	536	550	547		
Water Temperature (°C)	25.7	24.9	24.3	23.6	23.2	22.9		
Dissolved Oxygen (mg/L)	0.82	0.97	0.86	0.73	0.60	0.54		
Turbidity (NTU)	69.28	113.4	150.2	182.1	229.6	195.0		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	13:15	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.00
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-7D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	27.29-32.29	Total Well Depth (TWD) (ft.):	32.29
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	4.62	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	27.67	1 casing volume (CV = LWC x C) (gals.):	4.51	5 casing volumes (5 x CV) (gals.):	22.56

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.51	9.02	13.53	18.04	22.55		5.00
Time (military)	12:10	12:15						12:18
PH (s.u.)	7.05	6.81						6.72
Specific Conductivity (µS/cm)	374.1	358.0						339.2
Water Temperature (°C)	23.3	22.4						22.0
Dissolved Oxygen (mg/L)	1.96	2.13						2.19
Turbidity (NTU)	75.81	139.7						115.6

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	12:18	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	5.00
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-8	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.45-13.45	Total Well Depth (TWD) (ft.):	13.45
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.31	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD – DGW) (ft.):	11.14	1 casing volume (CV = LWC x C) (gals.):	1.82	5 casing volumes (5 x CV) (gals.):	9.08

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.82	3.63	5.45	7.26	9.08		
Time (military)	12:25	12:29	12:33	12:37	12:41	12:45		
PH (s.u.)	SHEEN	SHEEN	6.52	6.43	6.38	6.35		
Specific Conductivity (µS/cm)	SHEEN	SHEEN	251.0	274.4	283.9	279.1		
Water Temperature (°C)	SHEEN	SHEEN	23.0	22.4	21.9	21.6		
Dissolved Oxygen (mg/L)	SHEEN	SHEEN	0.34	0.39	0.45	0.47		
Turbidity (NTU)	SHEEN	SHEEN	89.3	137.6	159.2	140.8		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	12:45	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.50
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Notes: Odor: Duplicated as DUP-1

SHEEN=visible petroleum sheen on samples, field readings not taken



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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips		
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77		
<b>Quality Assurance</b>									
Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-9	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.76-13.76	Total Well Depth (TWD) (ft.):		13.76	
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			2.21	Free Product Thickness (ft.):		Not Detected	
Length of water column (LWC = TWD - DGW) (ft.):	11.55	1 casing volume (CV = LWC x C) (gals.):			1.88	5 casing volumes (5 x CV) (gals.):		9.41	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.88	3.77	5.65	7.53	9.41			
Time (military)	13:20	13:24	13:28	13:32	13:36	13:40			
PH (s.u.)	6.70	6.45	6.37	6.31	6.24	6.21			
Specific Conductivity (µS/cm)	290.6	274.1	260.8	246.8	235.2	220.4			
Water Temperature (°C)	24.10	23.20	22.5	22.1	21.8	21.7			
Dissolved Oxygen (mg/L)	1.72	1.95	1.93	2.08	2.13	2.07			
Turbidity (NTU)	39.46	61.80	104.2	125.1	147.3	172.7			
<b>Sampling Data</b>									
Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	13:40	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
Notes: <span style="float: right;">No Odor</span>									

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-10	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.42-13.42	Total Well Depth (TWD) (ft.):	13.42
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.27	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	12.15	1 casing volume (CV = LWC x C) (gals.):	1.98	5 casing volumes (5 x CV) (gals.):	9.90

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.98	3.96	5.94	7.92	9.90		
Time (military)	11:10	11:14	11:18	11:22	11:26	11:30		
PH (s.u.)	5.26	5.03	4.88	4.80	4.75	4.75		
Specific Conductivity (µS/cm)	117.9	128.4	135.7	152.6	148.1	147.2		
Water Temperature (°C)	22.3	21.7	21.2	20.8	20.6	20.5		
Dissolved Oxygen (mg/L)	0.98	0.93	1.05	1.40	1.32	1.29		
Turbidity (NTU)	32.91	54.62	81.37	103.8	124.4	186.2		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:30	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-11	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.65-13.65	Total Well Depth (TWD) (ft.):	13.65
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.34	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	12.31	1 casing volume (CV = LWC x C) (gals.):	2.01	5 casing volumes (5 x CV) (gals.):	10.03

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.01	4.01	6.02	8.03	10.03		
Time (military)	13:45	13:49	13:53	13:57	14:01	14:05		
PH (s.u.)	6.05	6.17	6.08	5.99	5.93	5.90		
Specific Conductivity (µS/cm)	734	703	690	681	674	678		
Water Temperature (°C)	23.9	23.0	22.7	22.4	22.2	22.1		
Dissolved Oxygen (mg/L)	0.52	0.69	0.77	0.81	0.84	0.86		
Turbidity (NTU)	85.70	154.3	197.2	238.4	219.6	182.7		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	14:05	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.50
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-13	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.62-13.62	Total Well Depth (TWD) (ft.):	13.62
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.28	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD – DGW) (ft.):	12.34	1 casing volume (CV = LWC x C) (gals.):	2.01	5 casing volumes (5 x CV) (gals.):	10.06

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.01	4.02	6.03	8.05	10.06		
Time (military)	12:00	12:04	12:08	12:12	12:16	12:20		
PH (s.u.)	6.77	6.81	6.70	6.62	6.62	6.48		
Specific Conductivity (µS/cm)	496.6	489.1	513	508	508	515		
Water Temperature (°C)	24.2	23.4	22.7	22.2	22.2	21.8		
Dissolved Oxygen (mg/L)	1.31	1.63	1.58	1.54	1.54	1.62		
Turbidity (NTU)	44.16	78.20	109.3	140.8	140.8	151.4		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	12:20	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.50
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Notes: \_\_\_\_\_  
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No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips		
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77		
<b>Quality Assurance</b>									
Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-14	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			3.72-13.72	Total Well Depth (TWD) (ft.):		13.72	
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			1.50	Free Product Thickness (ft.):		Not Detected	
Length of water column (LWC = TWD - DGW) (ft.):	12.22	1 casing volume (CV = LWC x C) (gals.):			1.99	5 casing volumes (5 x CV) (gals.):		9.96	
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.99	3.98	5.98	7.97	9.96			
Time (military)	11:15	11:19	11:23	11:27	11:31	11:35			
PH (s.u.)	6.68	6.29	6.10	6.02	5.97	5.95			
Specific Conductivity (µS/cm)	449.2	420.5	432.1	428.7	423.4	425.6			
Water Temperature (°C)	23.5	22.8	22.3	22.0	21.9	21.8			
Dissolved Oxygen (mg/L)	1.36	1.65	1.74	1.80	1.85	1.88			
Turbidity (NTU)	25.30	70.46	143.8	179.2	203.1	165.7			
<b>Sampling Data</b>									
Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:35	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00

Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

**Quality Assurance**

Meter Name	Serial #:	Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y							
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			

**Well Information**

Well ID:	MW-14D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	18.57-23.57	Total Well Depth (TWD) (ft.):	23.57
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.38	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	21.19	1 casing volume (CV = LWC x C) (gals.):	3.45	5 casing volumes (5 x CV) (gals.):	17.27

**Purging Data**

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	3.45	6.91	10.36	13.82	17.27		
Time (military)	11:40	11:45						11:48
PH (s.u.)	6.75	6.03						6.59
Specific Conductivity (µS/cm)	78.0	85.3						89.2
Water Temperature (°C)	23.0	22.3						21.9
Dissolved Oxygen (mg/L)	0.91	0.84						0.8
Turbidity (NTU)	51.82	86.40						128.5

**Sampling Data**

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:48	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	5.00
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

Quality Assurance										
Meter Name	Serial #:	Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y							
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			

Well Information					
Well ID:	MW-15	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.64-13.64	Total Well Depth (TWD) (ft.):	13.64
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.55	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	12.09	1 casing volume (CV = LWC x C) (gals.):	1.97	5 casing volumes (5 x CV) (gals.):	9.85

Purging Data								
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.97	3.94	5.91	7.88	9.85		
Time (military)	11:00	11:04	11:08	11:12	11:16	11:20		
PH (s.u.)	5.12	5.17	5.08	5.01	4.96	4.94		
Specific Conductivity (µS/cm)	116.8	139.5	146.2	148.3	144.9	149.0		
Water Temperature (°C)	20.0	19.3	18.8	18.6	18.4	18.4		
Dissolved Oxygen (mg/L)	1.07	1.31	1.39	1.47	1.52	1.53		
Turbidity (NTU)	35.16	70.92	113.8	148.3	189.1	156.0		

Sampling Data									
Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:20	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00

Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05269	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-16	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	1.85-11.85	Total Well Depth (TWD) (ft.):	11.85
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.81	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	10.04	1 casing volume (CV = LWC x C) (gals.):	1.64	5 casing volumes (5 x CV) (gals.):	8.18

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.64	3.27	4.91	6.55	8.18		
Time (military)	10:45	10:48	10:51	10:54	10:57	11:00		
PH (s.u.)	6.12	5.86	5.73	5.67	5.62	5.59		
Specific Conductivity (µS/cm)	279.5	285.1	270.2	263.4	260.5	259.0		
Water Temperature (°C)	20.5	19.9	19.4	19.1	18.9	18.9		
Dissolved Oxygen (mg/L)	2.14	2.10	2.19	2.27	2.31	2.35		
Turbidity (NTU)	68.31	95.06	127.4	159.2	180.7	204.9		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:00	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	8.50
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Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-17	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.71-13.71	Total Well Depth (TWD) (ft.):	13.71
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.51	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	11.20	1 casing volume (CV = LWC x C) (gals.):	1.83	5 casing volumes (5 x CV) (gals.):	9.13

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.83	3.65	5.48	7.30	9.13		
Time (military)	11:40	11:44	11:48	11:52	11:56	12:00		
PH (s.u.)	5.72	5.69	5.78	5.85	5.90	5.93		
Specific Conductivity (µS/cm)	319.7	312.4	305.1	301.6	297.2	295.3		
Water Temperature (°C)	23.1	2.1	21.8	21.5	21.3	21.2		
Dissolved Oxygen (mg/L)	0.66	0.66	0.83	0.90	0.99	1.04		
Turbidity (NTU)	37.02	37.02	83.61	110.7	148.3	170.8		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	12:00	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.50
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Notes: \_\_\_\_\_  
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No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

Quality Assurance										
Meter Name	Serial #:	Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y							
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			

Well Information					
Well ID:	MW-17D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25.31-30.31	Total Well Depth (TWD) (ft.):	30.31
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	3.88	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	26.43	1 casing volume (CV = LWC x C) (gals.):	4.31	5 casing volumes (5 x CV) (gals.):	21.54

Purging Data								
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.31	8.62	12.92	17.23	21.54		
Time (military)	11:30	11:35						11:37
PH (s.u.)	6.60	6.42						6.35
Specific Conductivity (µS/cm)	210.9	194.3						186.2
Water Temperature (°C)	23.2	22.4						22.2
Dissolved Oxygen (mg/L)	1.25	1.59						1.70
Turbidity (NTU)	21.65	29.43						79.18

Sampling Data									
Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:37	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	5.50

Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips		
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77		
<b>Quality Assurance</b>									
Meter Name	Serial #:	<b>Calibration:</b>							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-16	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Bailer	
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			2.38-13.28	Total Well Depth (TWD) (ft.):		12.38	
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			1.61	Free Product Thickness (ft.):		Not Detected	
Length of water column (LWC = TWD - DGW) (ft.):	10.77	1 casing volume (CV = LWC x C) (gals.):			1.76	5 casing volumes (5 x CV) (gals.):		8.76	
<b>Purging Data</b>									
	<i>Initial</i>	<i>1st Vol.</i>	<i>2nd Vol.</i>	<i>3rd Vol.</i>	<i>4th Vol.</i>	<i>5th Vol.</i>	<i>Post</i>	<i>Sampling</i>	
Volume Purged (gallons)	0.00	1.76	3.51	5.27	7.02	8.78			
Time (military)	10:45	10:48	10:51	10:54	10:57	11:00			
PH (s.u.)	5.43	5.17	5.22	5.13	5.16	5.14			
Specific Conductivity (µS/cm)	130.6	138.2	141.0	136.5	139.1	137.3			
Water Temperature (°C)	20.5	20.0	19.8	19.7	19.6	19.6			
Dissolved Oxygen (mg/L)	2.51	2.19	2.34	2.23	2.25	2.21			
Turbidity (NTU)	46.02	105.9	138.6	184.3	165.2	147.4			
<b>Sampling Data</b>									
Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:00	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.00

Notes: No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-19	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	3.80-13.80	Total Well Depth (TWD) (ft.):	13.80
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.84	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	10.96	1 casing volume (CV = LWC x C) (gals.):	1.79	5 casing volumes (5 x CV) (gals.):	8.93

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.79	3.57	5.36	7.15	8.93		
Time (military)	11:15	11:18	11:21	11:24	11:27	11:30		
PH (s.u.)	5.64	5.49	5.41	5.36	5.33	5.31		
Specific Conductivity (µS/cm)	326.7	341.2	338.1	334.6	339.3	336.5		
Water Temperature (°C)	23.0	22.3	21.7	21.3	20.9	20.8		
Dissolved Oxygen (mg/L)	0.51	0.72	0.80	0.87	0.90	0.93		
Turbidity (NTU)	40.71	72.36	96.24	123.8	150.9	178.5		

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:30	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.00
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Notes:	No Odor

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77

#### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102876	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

#### Well Information

Well ID:	MW-19D	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	26.94-31.94	Total Well Depth (TWD) (ft.):	31.94
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	3.83	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	28.11	1 casing volume (CV = LWC x C) (gals.):	4.58	5 casing volumes (5 x CV) (gals.):	22.91

#### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.58	9.16	13.75	18.33	22.91		5.00
Time (military)	11:15	11:20						11:21
PH (s.u.)	6.21	6.14						6.09
Specific Conductivity (µS/cm)	405.9	416.2						423.0
Water Temperature (°C)	23.5	23.0						22.8
Dissolved Oxygen (mg/L)	0.57	0.83						0.90
Turbidity (NTU)	28.43	39.17						47.29

#### Sampling Data

Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:21	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	5.00
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Notes: No Odor; Dry @ 5.0 gallons

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

Date:	5/13/2016	Site ID #:	05289	Site Name:	Burnette's Station	Field Personnel:	J. Phillips, C. Hanson, P. Wylie, C. Phillips		
County:	Jasper	Project Manager:	J. Bryant	General Weather Conditions:	Clear	Ambient Air Temp (°F):	77		
<b>Quality Assurance</b>									
Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15H101448	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro20 (Dissolved Oxygen)	12G102878	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301183	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		
<b>Well Information</b>									
Well ID:	MW-20	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652		0.163	Method of Purging/Sample Collection		Bailer		
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):		3.17-13.17	Total Well Depth (TWD) (ft.):		13.17		
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):		1.89	Free Product Thickness (ft.):		Not Detected		
Length of water column (LWC = TWD - DGW) (ft.):	11.28	1 casing volume (CV = LWC x C) (gals.):		1.84	5 casing volumes (5 x CV) (gals.):		9.19		
<b>Purging Data</b>									
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling	
Volume Purged (gallons)	0.00	1.84	3.68	5.52	7.35	9.19			
Time (military)	10:40	10:44	10:48	10:52	10:56	11:00			
PH (s.u.)	5.78	5.52	5.39	5.31	5.24	5.20			
Specific Conductivity (µS/cm)	239.4	220.5	203.2	195.7	192.1	193.8			
Water Temperature (°C)	21.0	20.2	19.5	19.0	18.7	18.8			
Dissolved Oxygen (mg/L)	1.74	0.70	1.81	1.88	1.95	1.98			
Turbidity (NTU)	35.13	81.59	136.4	198.0	172.6	150.2			
<b>Sampling Data</b>									
Sampled By:	J. Phillips, C. Hanson, P. Wylie, C. Phillips	Sampling Time:	11:00	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.50
Notes:	No Odor								

May 17, 2016

Re: Treatment of Purge Water  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 16-5529

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.

**A total of 182.50 gallons were treated on May 13, 2016 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.

  
Todd D. Elder  
Staff Hydrogeologist





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

Page: 1 of 4
<b>1997149</b>
REGULATORY AGENCY
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
Site Location: <b>SC</b> <b>Jasper</b> STATE:

<b>Section A</b> Required Client Information: Company: <b>SDHEL-UST</b> Address: <b>2600 Bull Street</b> <b>Columbia, SC 29201</b> Email To: <b>bryantjc@dhel.sc.gov</b> Phone: <b>803-878-0606</b> Fax: <b>803-878-0673</b> Requested Due Date/TAT:	<b>Section B</b> Required Project Information: Report To: <b>J Bryant - UST</b> Copy To: Purchase Order No.: <b>U600422513</b> Project Name: <b>Buenettes Sul. Sta.</b> Project Number: <b>UST05289 / PALE IA</b>	<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: <b>T. Carter</b> Pace Profile #:
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ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
					COMPOSITE START	COMPOSITE ENDIGRAB					Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Ni <sub>2</sub> -S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓																
	<b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE				DATE	TIME	DATE	TIME																											
1	MW-1		JT	G			5/13/16	3:05	6										X	X	X	X	X	X	X	X									Odor; sheen
2	MW-2							3:05																										No odor	
3	MW-2D							3:18																										No odor	
4	MW-3							3:00																										Odor; sheen	
5	MW-4							12:50																										No odor	
6	MW-5		JT	G			5/13/16	13:15	6										X	X	X	X												No odor	
7	MW-6																																	Not sampled	
8	MW-7		JT	G			5/13/16	12:30	6										X	X	X	X												No odor	
9	MW-7D							12:18																										No odor	
10	MW-8							12:45																										Odor	
11	MW-9							13:40																										No odor	
12	MW-10		JT	G			5/13/16	11:30	6										X	X	X	X												No odor	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Peter J. Wylie / MECI	5/13/16	17:00				

<b>SAMPLER NAME AND SIGNATURE</b>				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <b>Peter J. Wylie</b>							
SIGNATURE of SAMPLER: <i>Peter J. Wylie</i>				DATE Signed (MM/DD/YY): <b>5/13/16</b>			



**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page: 2 of 4  <b>1997147</b>
Company: <b>SCDHEC-UST</b>	Report To: <b>J. Bryant-UST</b>	Attention:	<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Address: <b>2600 Bill Street</b> <b>Columbia, SC 29201</b>	Copy To:	Company Name:	
Email To: <b>bryantj@dhc.sc.gov</b>	Purchase Order No.: <b>4600422513</b>	Address:	
Phone: <b>803-898-0606</b>	Fax: <b>803-898-0673</b>	Project Name: <b>Burmette's Svc. Sta</b>	Site Location
Requested Due Date/TAT:	Project Number: <b>UST05287/PAE</b>	Pace Profile #: <b>T. Carter</b>	STATE: <b>SC Jasper</b>

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)			
		DRinking Water WT	Waste Water WW	COMPOSITE START	COMPOSITE END/GRAB	Preservatives																	
						DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other		↓ Analysis Test ↓		
1	MW-11	WT	G			5/13/16	14:05	6															
2	MW-13						12:20																
3	MW-14						11:35																
4	MW-14D						11:48																
5	MW-15						11:20																
6	MW-16						11:00																
7	MW-17						2:00																
8	MW-17D						11:37																
9	MW-18						11:00																
10	MW-19						11:30																
11	MW-19D						11:21																
12	MW-20	WT	G			5/13/16	11:00	6															No odor

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
							Temp in °C	Received on ice (Y/N)
	Peter J. Wylie / MECI	5/13/16	17:00					

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <b>Peter J. Wylie</b>						
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YYYY): <b>5/13/16</b>				



### CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 4  
**1997148**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SLDHEC-UST</u>		Report To: <u>J Bryant - UST</u>		Attention:	
Address: <u>2600 Bull Street</u> <u>Columbia, SC 29201</u>		Copy To:		Company Name:	
Email To: <u>bryant.j@dhec.sc.gov</u>		Purchase Order No.: <u>4600422513</u>		Address:	
Phone: <u>803-878-0606</u> Fax: <u>803-878-0673</u>		Project Name: <u>Burnette's Svc. Sta.</u>		Pace Quote Reference:	
Requested Due Date/TAT:		Project Number: <u>UST 05289 / PAGE CA</u>		Pace Project Manager: <u>T. Carter</u>	
				REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location STATE: <u>SC</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓ Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>				Methanol	Other
					DATE	TIME	DATE	TIME													
1	SW-1		WTG		5/13/16	13:15		6		6					X	X	X	X	X	LDLs	
2	SW-2		WTG			13:20									X	X	X	X	X		
3	SW-3		WTG			13:30									X	X	X	X	X		
4	SW-4		WTG			13:50									X	X	X	X	X		
5	SW-5		WTG			13:40									X	X	X	X	X		
6	WSW-1		WTG		5/13/16	13:30		6		6					X	X	X	X	X	LDLs	
7	WSW-2		WTG												X	X	X	X	X	Not sampled	
8	WSW-3		WTG		5/13/16	14:25		6		6					X	X	X	X	X	LDLs	
9	WSW-4		WTG												X	X	X	X	X	Not sampled	
10	Dup 1		WTG		5/13/16	12:45		6		6					X	X	X	X	X	Not sampled	
11	Dup 2		WTG			13:05		6		6					X	X	X	X	X	Odor; sheen	
12	Field blank		WTG		5/13/16	14:40		6		6					X	X	X	X	X	Field blank	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Peter J. Wyle / MECI	5/13/16	17:00				

2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Peter J. Wyle</u>					
SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YY): <u>5/13/16</u>					

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



### CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of 4

**1997146**

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER

UST  RCRA  OTHER \_\_\_\_\_

Site Location: SC Jasper

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <u>SCDHEC-UST</u>	Report To: <u>J Bryant-UST</u>	Attention:
Address: <u>2600 Bull Street</u>	Copy To:	Company Name:
<u>Columbia, SC 29201</u>		Address:
Email To: <u>jbryantj@dhec.sc.gov</u>	Purchase Order No.: <u>4600422513</u>	Pace Quote Reference #:
Phone: <u>803-898-0666</u> Fax: <u>803-898-0673</u>	Project Name: <u>Burnetts Svc. Station</u>	Pace Project Manager: <u>T. Loster</u>
Requested Due Date/TAT:	Project Number: <u>UST05289/PAE</u>	Pace Profile #:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.			
			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	NiAs <sub>2</sub> O <sub>5</sub>	Methanol	Other									
			DATE	TIME	DATE	TIME																			
1	Trip blank 1	WTG			5/13/16	14:41	2																	Trip blank 1	
2	Trip blank 2	WTG			5/13/16	14:42	2																		Trip blank 2
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>Peter J. Wylie / MELT</u>	<u>5/13/16</u>	<u>17:00</u>				

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Peter J. Wylie

SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 5/13/16

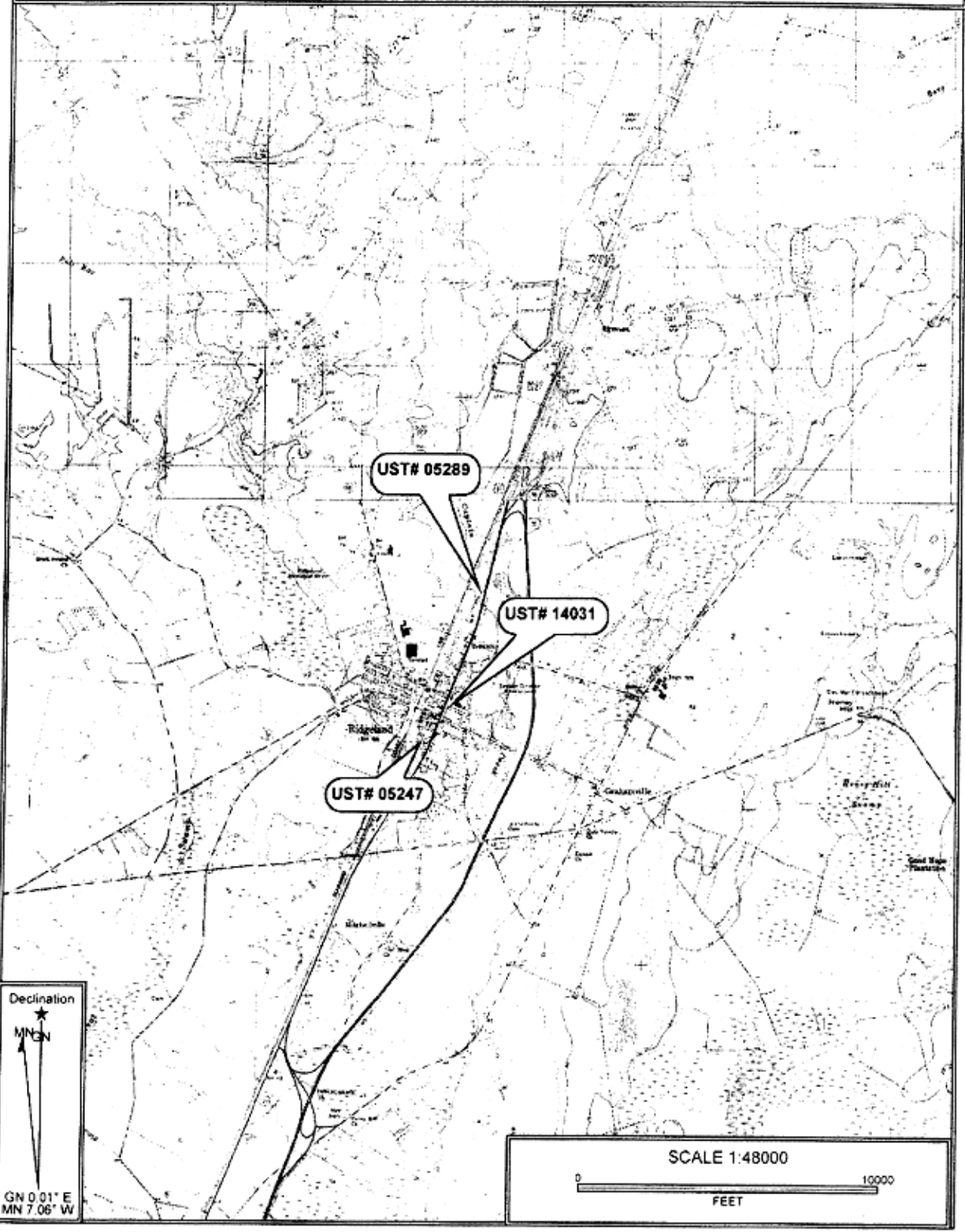
Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

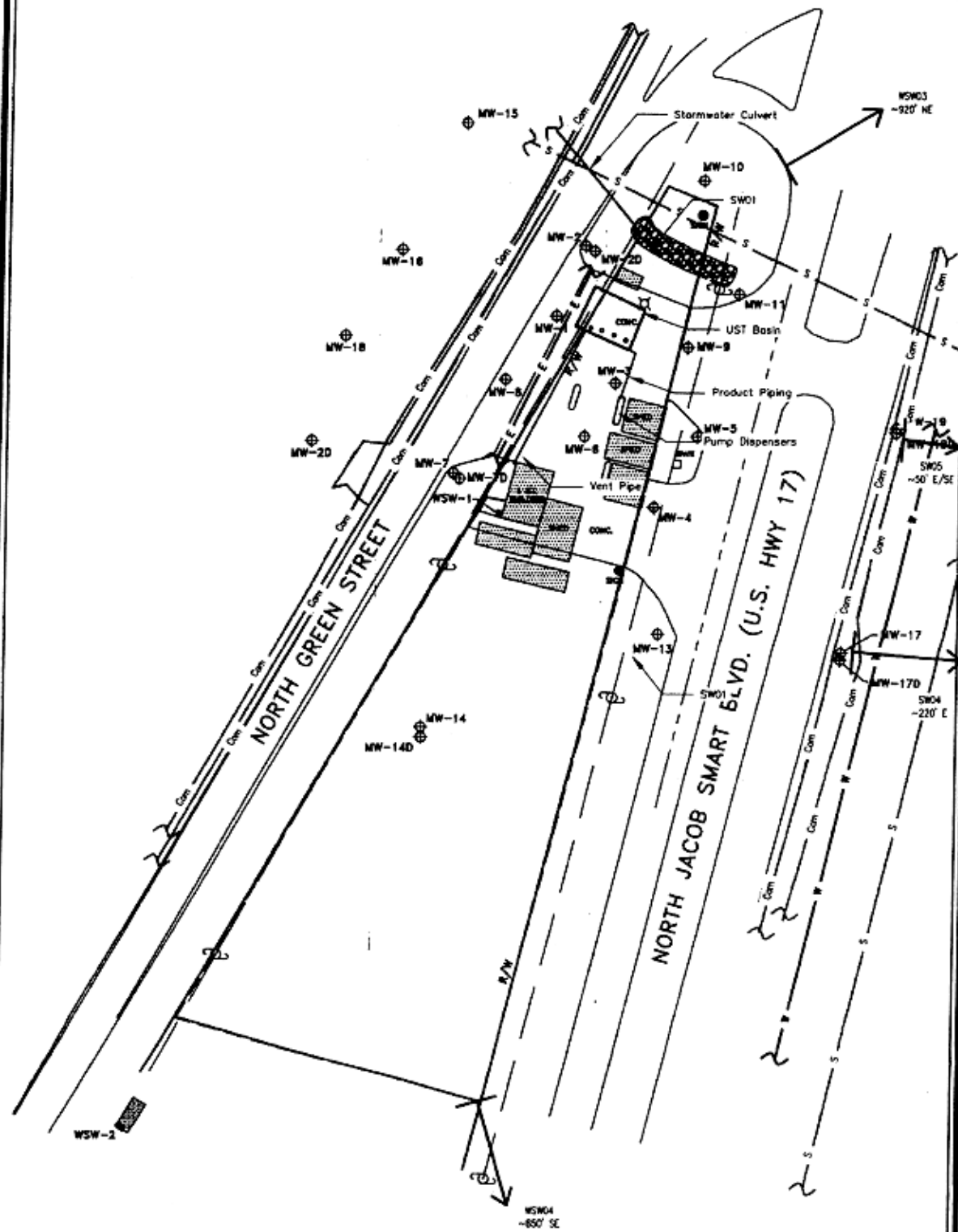
\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

3: RIDGELAND  
Print Date: 11/09/15

Scale: 1 inch = 4,000 ft.  
Map Center: 032° 29' 31.68" N, 080° 58' 15.00" W

Horizontal Datum: NAD27





REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- E — Approximate Location of Underground Electric Line
- Com — Approximate Location of Underground Communication (Cable/Phone) Line
- W — Approximate Location of Underground Water Line
- G — Approximate Location of Underground Gas Line
- S — Approximate Location of Underground Sewer/Stormwater Line
- — Approximate Property Boundary



File	Site Base Map
Project	Bumette's Service Station (UST Permit #2209) 11577 N. Jacob Smart Boulevard Raleigh, South Carolina Jasper County
Date	02/24/2015
Job No.	24-000-1
<b>petra-tech</b> PROFESSIONAL ENGINEERS AND SURVEYORS	
Figure No.	3

May 31, 2016



Mr. John Bryant  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Project: 05289/52237 BURNETTE'S SVC STA  
Pace Project No.: 92297663

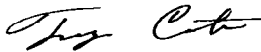
Dear Mr. Bryant:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,



Trey Carter  
treycarter@pacelabs.com  
Project Manager

Enclosures

cc: Ashleigh Thrash, SCHDEC



**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, Inc.**  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

## CERTIFICATIONS

Project: 05289/52237 BURNETTE'S SVC STA  
Pace Project No.: 92297663

---

### Charlotte Certification IDs

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

South Carolina Certification #: 99006001  
Florida/NELAP Certification # E87627  
Kentucky UST Certification # 84  
Virginia/VELAP Certification # 460221

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## REPORT OF LABORATORY ANALYSIS

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**SAMPLE SUMMARY**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92297663001	MW-1	Water	05/13/16 13:05	05/14/16 09:02
92297663002	MW-2	Water	05/13/16 13:05	05/14/16 09:02
92297663003	MW-2D	Water	05/13/16 13:18	05/14/16 09:02
92297663004	MW-3	Water	05/13/16 13:00	05/14/16 09:02
92297663005	MW-4	Water	05/13/16 12:50	05/14/16 09:02
92297663006	MW-5	Water	05/13/16 13:15	05/14/16 09:02
92297663007	MW-7	Water	05/13/16 12:30	05/14/16 09:02
92297663008	MW-7D	Water	05/13/16 12:18	05/14/16 09:02
92297663009	MW-8	Water	05/13/16 12:45	05/14/16 09:02
92297663010	MW-9	Water	05/13/16 13:40	05/14/16 09:02
92297663011	MW-10	Water	05/13/16 11:30	05/14/16 09:02
92297663012	MW-11	Water	05/13/16 14:05	05/14/16 09:02
92297663013	MW-13	Water	05/13/16 12:20	05/14/16 09:02
92297663014	MW-14	Water	05/13/16 11:35	05/14/16 09:02
92297663015	MW-14D	Water	05/13/16 11:48	05/14/16 09:02
92297663016	MW-15	Water	05/13/16 11:20	05/14/16 09:02
92297663017	MW-16	Water	05/13/16 11:00	05/14/16 09:02
92297663018	MW-17	Water	05/13/16 12:00	05/14/16 09:02
92297663019	MW-17D	Water	05/13/16 11:37	05/14/16 09:02
92297663020	MW-18	Water	05/13/16 11:00	05/14/16 09:02
92297663021	MW-19	Water	05/13/16 11:30	05/14/16 09:02
92297663022	MW-19D	Water	05/13/16 11:21	05/14/16 09:02
92297663023	MW-20	Water	05/13/16 11:00	05/14/16 09:02
92297663024	SW-1	Water	05/13/16 13:15	05/14/16 09:02
92297663025	SW-2	Water	05/13/16 13:20	05/14/16 09:02
92297663026	SW-3	Water	05/13/16 13:30	05/14/16 09:02
92297663027	SW-4	Water	05/13/16 13:50	05/14/16 09:02
92297663028	SW-5	Water	05/13/16 13:40	05/14/16 09:02
92297663029	WSW-1	Water	05/13/16 13:30	05/14/16 09:02
92297663030	WSW-3	Water	05/13/16 14:25	05/14/16 09:02
92297663031	DUP 1	Water	05/13/16 12:45	05/14/16 09:02
92297663032	DUP 2	Water	05/13/16 13:05	05/14/16 09:02
92297663033	FIELD BLANK	Water	05/13/16 14:40	05/14/16 09:02
92297663034	TIRP BLANK 1	Water	05/13/16 14:41	05/14/16 09:02
92297663035	TIRP BLANK 2	Water	05/13/16 14:42	05/14/16 09:02

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No . 92297663

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92297663001	MW-1	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663002	MW-2	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663003	MW-2D	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663004	MW-3	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663005	MW-4	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663006	MW-5	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663007	MW-7	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663008	MW-7D	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663009	MW-8	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663010	MW-9	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663011	MW-10	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92297663012	MW-11	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92297663013	MW-13	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92297663014	MW-14	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92297663015	MW-14D	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92297663016	MW-15	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663017	MW-16	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92297663018	MW-17	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92297663019	MW-17D	EPA 8011	HSK	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92297663020	MW-18	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663021	MW-19	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663022	MW-19D	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663023	MW-20	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663024	SW-1	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663025	SW-2	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663026	SW-3	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663027	SW-4	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663028	SW-5	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663029	WSW-1	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663030	WSW-3	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663031	DUP 1	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663032	DUP 2	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663033	FIELD BLANK	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92297663034	TIRP BLANK 1	EPA 8260	CCL	20	PASI-C
		EPA 8260	CCL	20	PASI-C
92297663035	TIRP BLANK 2	EPA 8260	CCL	20	PASI-C
		EPA 8260	CCL	20	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No: 92297663

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92297663001</b>	<b>MW-1</b>					
EPA 8260	Benzene	1180	ug/L	500	05/18/16 16:07	
EPA 8260	Ethylbenzene	769	ug/L	500	05/18/16 16:07	
EPA 8260	Naphthalene	707	ug/L	500	05/18/16 16:07	
EPA 8260	Toluene	15400	ug/L	500	05/18/16 16:07	
EPA 8260	Xylene (Total)	6140	ug/L	1000	05/18/16 16:07	
EPA 8260	m&p-Xylene	3580	ug/L	1000	05/18/16 16:07	
EPA 8260	o-Xylene	2560	ug/L	500	05/18/16 16:07	
<b>92297663002</b>	<b>MW-2</b>					
EPA 8260	tert-Amyl Alcohol	86.3J	ug/L	100	05/18/16 06:08	
EPA 8260	tert-Butyl Alcohol	1010	ug/L	100	05/18/16 06:08	
EPA 8260	Methyl-tert-butyl ether	48.3	ug/L	5.0	05/18/16 06:08	
<b>92297663003</b>	<b>MW-2D</b>					
EPA 8260	tert-Butyl Alcohol	91.2J	ug/L	100	05/18/16 06:24	
<b>92297663004</b>	<b>MW-3</b>					
EPA 8260	Benzene	3200	ug/L	1000	05/18/16 16:23	
EPA 8260	Ethylbenzene	2400	ug/L	1000	05/18/16 16:23	
EPA 8260	Naphthalene	735J	ug/L	1000	05/18/16 16:23	
EPA 8260	Toluene	23600	ug/L	1000	05/18/16 16:23	
EPA 8260	Xylene (Total)	13000	ug/L	2000	05/18/16 16:23	
EPA 8260	m&p-Xylene	8790	ug/L	2000	05/18/16 16:23	
EPA 8260	o-Xylene	4250	ug/L	1000	05/18/16 16:23	
<b>92297663009</b>	<b>MW-8</b>					
EPA 8260	tert-Amyl Alcohol	490	ug/L	100	05/18/16 08:01	
EPA 8260	Benzene	33.6	ug/L	5.0	05/18/16 08:01	
EPA 8260	tert-Butyl Alcohol	156	ug/L	100	05/18/16 08:01	
EPA 8260	Ethylbenzene	39.4	ug/L	5.0	05/18/16 08:01	
EPA 8260	Naphthalene	18.1	ug/L	5.0	05/18/16 08:01	
<b>92297663010</b>	<b>MW-9</b>					
EPA 8260	tert-Amyl Alcohol	708	ug/L	100	05/18/16 08:17	
EPA 8260	tert-Butyl Alcohol	362	ug/L	100	05/18/16 08:17	
EPA 8260	Methyl-tert-butyl ether	16.9	ug/L	5.0	05/18/16 08:17	
EPA 8260	Naphthalene	73.5	ug/L	5.0	05/18/16 08:17	
<b>92297663026</b>	<b>SW-3</b>					
EPA 8260	Toluene	0.44J	ug/L	1.0	05/18/16 03:06	
<b>92297663031</b>	<b>DUP 1</b>					
EPA 8260	tert-Amyl Alcohol	508	ug/L	100	05/19/16 07:34	
EPA 8260	Benzene	31.0	ug/L	5.0	05/19/16 07:34	
EPA 8260	tert-Butyl Alcohol	161	ug/L	100	05/19/16 07:34	
EPA 8260	Ethylbenzene	34.5	ug/L	5.0	05/19/16 07:34	
EPA 8260	Naphthalene	16.8	ug/L	5.0	05/19/16 07:34	
<b>92297663032</b>	<b>DUP 2</b>					
EPA 8260	Benzene	1140	ug/L	500	05/19/16 14:31	

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**SUMMARY OF DETECTION**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.. 92297663

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92297663032</b>	<b>DUP 2</b>					
EPA 8260	Ethylbenzene	778	ug/L	500	05/19/16 14:31	
EPA 8260	Naphthalene	794	ug/L	500	05/19/16 14:31	
EPA 8260	Toluene	16100	ug/L	500	05/19/16 14:31	
EPA 8260	Xylene (Total)	6420	ug/L	1000	05/19/16 14:31	
EPA 8260	m&p-Xylene	3770	ug/L	1000	05/19/16 14:31	
EPA 8260	o-Xylene	2660	ug/L	500	05/19/16 14:31	

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## PROJECT NARRATIVE

Project: 05289/52237 BURNETTE'S SVC STA  
Pace Project No 92297663

---

**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** May 31, 2016

### General Information:

33 samples were analyzed for EPA 8011. 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 OEXT/42611

S0 Surrogate recovery outside laboratory control limits.

- LCSD (Lab ID 1735212)
- 1-Chloro-2-bromopropane (S)

QC Batch OEXT/42630

S3. Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples Results unaffected by high bias.

- DUP 2 (Lab ID: 92297663032)
- 1-Chloro-2-bromopropane (S)
- WSW-3 (Lab ID: 92297663030)
- 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.

QC Batch: OEXT/42611

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits

- LCSD (Lab ID: 1735212)
- 1,2-Dibromoethane (EDB)

R1 RPD value was outside control limits

- LCSD (Lab ID: 1735212)
- 1,2-Dibromoethane (EDB)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 05289/52237 BURNETTE'S SVC STA  
Pace Project No: 92297663

---

**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** May 31, 2016

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below

QC Batch: OEXT/42611

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92297663010

- M1: Matrix spike recovery exceeded QC limits Batch accepted based on laboratory control sample (LCS) recovery
  - MSD (Lab ID 1735214)
  - 1,2-Dibromoethane (EDB)

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project 05289/52237 BURNETTE'S SVC STA  
Pace Project No.. 92297663

---

**Method:** EPA 8260  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** May 31, 2016

### General Information:

7 samples were analyzed for EPA 8260. 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: MSV/36885

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s) 92297663030

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

- MS (Lab ID 1736101)
- tert-Butyl Alcohol

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 1736101)
- tert-Butyl Formate

### 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: 05289/52237 BURNETTE'S SVC STA  
Pace Project No.: 92297663

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** May 31, 2016

**General Information:**

28 samples were analyzed for EPA 8260. 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

QC Batch MSV/36875

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits

- LCS (Lab ID: 1735695)
- Ethanol

QC Batch: MSV/36896

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1736823)
- Ethanol

QC Batch: MSV/36909

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID 1737839)
- Ethanol

QC Batch MSV/36945

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID 1740053)
- Ethanol

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## PROJECT NARRATIVE

Project: 05289/52237 BURNETTE'S SVC STA

Pace Project No.: 92297663

---

**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** SCDHEC

**Date:** May 31, 2016

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below

QC Batch: MSV/36875

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s) 92297663005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits

- MS (Lab ID: 1735728)
- Ethanol

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: 1735728)
- tert-Butyl Formate

QC Batch: MSV/36886

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92297663022

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

- MS (Lab ID: 1736105)
- Ethanol
- tert-Butyl Alcohol

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: 1736105)
- tert-Butyl Formate

QC Batch: MSV/36890

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s) 92297482001

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

- MS (Lab ID: 1736501)
- Ethanol
- Naphthalene
- m&p-Xylene
- o-Xylene

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: 1736501)
- tert-Butyl Formate

QC Batch: MSV/36896

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s) 92297686016

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits

- MS (Lab ID: 1736824)
- Ethanol

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

- MS (Lab ID: 1736824)
- 3,3-Dimethyl-1-Butanol

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## PROJECT NARRATIVE

Project 05289/52237 BURNETTE'S SVC STA  
Pace Project No 92297663

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** May 31, 2016

QC Batch: MSV/36896

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92297686016

M1 Matrix spike recovery exceeded QC limits Batch accepted based on laboratory control sample (LCS) recovery  
• tert-Butyl Alcohol

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 1736824)
- tert-Butyl Formate

QC Batch: MSV/36909

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92297686034

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits

- MS (Lab ID 1737840)
- Ethanol

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

- MS (Lab ID 1737840)
- 3,3-Dimethyl-1-Butanol
- Benzene
- tert-Amyl Alcohol
- tert-Butyl Alcohol

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 1737840)
- tert-Butyl Formate

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: MW-1 Lab ID: 92297663001 Collected 05/13/16 13 05 Received: 05/14/16 09:02 Matrx: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method. EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12 54	05/17/16 22 32	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	05/17/16 12.54	05/17/16 22:32	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		05/18/16 16:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	340	100		05/18/16 16:07	994-05-8	
Benzene	1180	ug/L	500	170	100		05/18/16 16:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		05/18/16 16:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		05/18/16 16:07	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		05/18/16 16:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		05/18/16 16:07	107-06-2	
Diisopropyl ether	ND	ug/L	500	170	100		05/18/16 16:07	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		05/18/16 16:07	64-17-5	
Ethylbenzene	769	ug/L	500	160	100		05/18/16 16:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		05/18/16 16:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	170	100		05/18/16 16:07	1634-04-4	
Naphthalene	707	ug/L	500	200	100		05/18/16 16:07	91-20-3	
Toluene	15400	ug/L	500	160	100		05/18/16 16:07	108-88-3	
Xylene (Total)	6140	ug/L	1000	270	100		05/18/16 16:07	1330-20-7	
m&p-Xylene	3580	ug/L	1000	310	100		05/18/16 16:07	179601-23-1	
o-Xylene	2560	ug/L	500	160	100		05/18/16 16:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		100		05/18/16 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		100		05/18/16 16:07	17060-07-0	
Toluene-d8 (S)	98	%	70-130		100		05/18/16 16:07	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: MW-2 Lab ID: 92297663002 Collected: 05/13/16 13:05 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:54	05/17/16 22:51	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	05/17/16 12:54	05/17/16 22:51	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	<b>86.3J</b>	ug/L	100	76.8	1		05/18/16 06:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 06:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 06:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 06:08	624-95-3	
tert-Butyl Alcohol	<b>1010</b>	ug/L	100	57.7	1		05/18/16 06:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 06:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 06:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 06:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 06:08	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 06:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 06:08	637-92-3	
Methyl-tert-butyl ether	<b>48.3</b>	ug/L	5.0	1.7	1		05/18/16 06:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 06:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 06:08	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 06:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 06:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 06:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/18/16 06:08	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/18/16 06:08	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/18/16 06:08	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: MW-2D Lab ID: 92297663003 Collected 05/13/16 13 18 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:54	05/17/16 23:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	75	%	60-140		1	05/17/16 12:54	05/17/16 23:10	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 06:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 06:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 06:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 06:24	624-95-3	
tert-Butyl Alcohol	91.2J	ug/L	100	57.7	1		05/18/16 06:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 06:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 06:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 06:24	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 06:24	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 06:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 06:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 06:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 06:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 06:24	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 06:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 06:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 06:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		05/18/16 06:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/18/16 06:24	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/18/16 06:24	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

Sample: MW-3 Lab ID: 92297663004 Collected: 05/13/16 13:00 Received 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0 019	1	05/17/16 12 54	05/17/16 23 29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	129	%	60-140		1	05/17/16 12 54	05/17/16 23.29	301-79-56	
<b>8260 MSV</b> Analytical Method. EPA 8260									
tert-Amyl Alcohol	ND	ug/L	20000	15400	200		05/18/16 16 23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	680	200		05/18/16 16 23	994-05-8	
Benzene	<b>3200</b>	ug/L	1000	340	200		05/18/16 16:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	6420	200		05/18/16 16 23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	11500	200		05/18/16 16 23	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	1460	200		05/18/16 16 23	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	360	200		05/18/16 16.23	107-06-2	
Diisopropyl ether	ND	ug/L	1000	340	200		05/18/16 16 23	108-20-3	
Ethanol	ND	ug/L	40000	26200	200		05/18/16 16.23	64-17-5	
Ethylbenzene	<b>2400</b>	ug/L	1000	320	200		05/18/16 16 23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	720	200		05/18/16 16.23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	340	200		05/18/16 16:23	1634-04-4	
Naphthalene	<b>735J</b>	ug/L	1000	400	200		05/18/16 16:23	91-20-3	
Toluene	<b>23600</b>	ug/L	1000	320	200		05/18/16 16:23	108-88-3	
Xylene (Total)	<b>13000</b>	ug/L	2000	540	200		05/18/16 16:23	1330-20-7	
m&p-Xylene	<b>8790</b>	ug/L	2000	620	200		05/18/16 16:23	179601-23-1	
o-Xylene	<b>4250</b>	ug/L	1000	320	200		05/18/16 16:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		200		05/18/16 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		200		05/18/16 16:23	17060-07-0	
Toluene-d8 (S)	97	%	70-130		200		05/18/16 16 23	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No. 92297663

Sample: MW-4 Lab ID: 92297663005 Collected: 05/13/16 12:50 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	05/17/16 12:54	05/17/16 23:48	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	05/17/16 12:54	05/17/16 23:48	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 06:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 06:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 06:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 06:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 06:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 06:40	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 06:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 06:40	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 06:40	64-17-5	L3,M0
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 06:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 06:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 06:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 06:40	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 06:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 06:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 06:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 06:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/18/16 06:40	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 06:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/18/16 06:40	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: MW-5 Lab ID: 92297663006 Collected 05/13/16 13:15 Received: 05/14/16 09:02 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:54	05/18/16 00:08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	140	%	60-140		1	05/17/16 12:54	05/18/16 00:08	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 06:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 06:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 06:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 06:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 06:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 06:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 06:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 06:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 06:56	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 06:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 06:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 06:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 06:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 06:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 06:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 06:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 06:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		05/18/16 06:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 06:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/18/16 06:56	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

Sample: MW-7 Lab ID: 92297663007 Collected: 05/13/16 12:30 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:54	05/18/16 00:27	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	70	%	60-140		1	05/17/16 12:54	05/18/16 00:27	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 07:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 07:28	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 07:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 07:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 07:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 07:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 07:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:28	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 07:28	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 07:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 07:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 07:28	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 07:28	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 07:28	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 07:28	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 07:28	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/18/16 07:28	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 07:28	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/18/16 07:28	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No. 92297663

Sample: MW-7D Lab ID: 92297663008 Collected: 05/13/16 12:18 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	05/17/16 12:54	05/18/16 00:46	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/17/16 12:54	05/18/16 00:46	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 07:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 07:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 07:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 07:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 07:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 07:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 07:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 07:44	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 07:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 07:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 07:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 07:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 07:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 07:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 07:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/18/16 07:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 07:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/18/16 07:44	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No. 92297663

Sample: MW-8									
Lab ID: 92297663009 Collected: 05/13/16 12:45 Received: 05/14/16 09 02 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:55	05/18/16 02 22	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	76	%	60-140		1	05/17/16 12:55	05/18/16 02.22	301-79-56	
<b>8260 MSV</b>									
Analytical Method. EPA 8260									
tert-Amyl Alcohol	490	ug/L	100	76.8	1		05/18/16 08 01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 08 01	994-05-8	
Benzene	33.6	ug/L	5.0	1.7	1		05/18/16 08:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 08 01	624-95-3	
tert-Butyl Alcohol	156	ug/L	100	57.7	1		05/18/16 08 01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 08 01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 08:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08 01	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 08 01	64-17-5	L3
Ethylbenzene	39.4	ug/L	5.0	1.6	1		05/18/16 08 01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 08 01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08 01	1634-04-4	
Naphthalene	18.1	ug/L	5.0	2.0	1		05/18/16 08 01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 08 01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 08:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 08:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 08:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 08 01	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 08:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/18/16 08:01	2037-26-5	

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### ANALYTICAL RESULTS

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: MW-9		Lab ID: 92297663010		Collected	05/13/16 13 40	Received	05/14/16 09:02	Matrix Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	05/17/16 12 55	05/18/16 02:42	106-93-4	L3,M1
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	05/17/16 12 55	05/18/16 02:42	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	708	ug/L	100	76.8	1		05/18/16 08 17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 08:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 08 17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 08 17	624-95-3	
tert-Butyl Alcohol	362	ug/L	100	57.7	1		05/18/16 08:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 08 17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 08:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08:17	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 08:17	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 08:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 08:17	637-92-3	
Methyl-tert-butyl ether	16.9	ug/L	5.0	1.7	1		05/18/16 08:17	1634-04-4	
Naphthalene	73.5	ug/L	5.0	2.0	1		05/18/16 08:17	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 08 17	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 08 17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 08 17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 08 17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/18/16 08:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 08:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/18/16 08 17	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: MW-10		Lab ID: 92297663011		Collected	05/13/16 11 30	Received:	05/14/16 09 02	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:56	05/18/16 03:39	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	05/17/16 12 56	05/18/16 03:39	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 07:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 07:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 07:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 07:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 07:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 07:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 07:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 07:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 07:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 07:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 07:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 07:39	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 07:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 07:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 07:39	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/18/16 07:39	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/18/16 07:39	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		05/18/16 07:39	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

**Sample: MW-11** Lab ID: 92297663012 Collected: 05/13/16 14 05 Received: 05/14/16 09 02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method. EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:56	05/18/16 03:59	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	05/17/16 12:56	05/18/16 03:59	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 07:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 07:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 07:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 07:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 07:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 07:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 07:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 07:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 07:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 07:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 07:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 07:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 07:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 07:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 07:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 07:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/18/16 07:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 07:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 07:56	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No: 92297663

Sample: MW-13 Lab ID: 92297663013 Collected: 05/13/16 12:20 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:56	05/18/16 04:37	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	05/17/16 12:56	05/18/16 04:37	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 08:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 08:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 08:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 08:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 08:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 08:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 08:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08:13	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 08:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 08:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 08:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 08:13	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 08:13	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 08:13	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 08:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 08:13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/18/16 08:13	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 08:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/18/16 08:13	2037-26-5	

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### ANALYTICAL RESULTS

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: MW-14		Lab ID: 92297663014		Collected	05/13/16 11:35	Received	05/14/16 09:02	Matrix Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.021	1	05/17/16 12:56	05/18/16 04:56	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	05/17/16 12:56	05/18/16 04:56	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 08:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 08:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 08:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 08:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 08:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 08:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 08:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 08:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 08:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 08:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 08:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 08:30	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 08:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 08:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 08:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/18/16 08:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 08:30	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/18/16 08:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: MW-14D		Lab ID: 92297663015		Collected	05/13/16 11.48	Received	05/14/16 09:02	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.021	1	05/17/16 12:56	05/18/16 05:15	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	05/17/16 12:56	05/18/16 05:15	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 08:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 08:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 08:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 08:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 08:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 08:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 08:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08:47	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 08:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 08:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 08:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 08:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 08:47	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 08:47	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 08:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 08:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 08:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/18/16 08:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 08:47	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 08:47	2037-26-5	

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### ANALYTICAL RESULTS

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

Sample: MW-15		Lab ID: 92297663016		Collected: 05/13/16 11:20		Received: 05/14/16 09:02		Matrix Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:56	05/18/16 05:34	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	05/17/16 12:56	05/18/16 05:34	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/23/16 14:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/23/16 14:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/23/16 14:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/23/16 14:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/23/16 14:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/23/16 14:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/23/16 14:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/23/16 14:31	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/23/16 14:31	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/23/16 14:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/23/16 14:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/23/16 14:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/23/16 14:31	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/23/16 14:31	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/23/16 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/23/16 14:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/23/16 14:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/23/16 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		05/23/16 14:31	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		05/23/16 14:31	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

Sample: MW-16									
Lab ID: 92297663017 Collected 05/13/16 11:00 Received: 05/14/16 09:02 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.021	1	05/17/16 12:56	05/18/16 05:53	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	76	%	60-140		1	05/17/16 12:56	05/18/16 05:53	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 09:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 09:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 09:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 09:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 09:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 09:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 09:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 09:22	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 09:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 09:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 09:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 09:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 09:22	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 09:22	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 09:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 09:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 09:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 09:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 09:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 09:22	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: MW-17		Lab ID: 92297663018		Collected: 05/13/16 12 00	Received: 05/14/16 09 02	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:56	05/18/16 06:12	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	05/17/16 12:56	05/18/16 06:12	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 09:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 09:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 09:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 09:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 09:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 09:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 09:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 09:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 09:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 09:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 09:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 09:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 09:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 09:39	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 09:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 09:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 09:39	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/18/16 09:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 09:39	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 09:39	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: MW-17D Lab ID: 92297663019 Collected: 05/13/16 11 37 Received: 05/14/16 09 02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method EPA 8011 Preparation Method EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0 020	0.020	1	05/17/16 12:56	05/18/16 06:32	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	123	%	60-140		1	05/17/16 12 56	05/18/16 06.32	301-79-56	
<b>8260 MSV</b>			Analytical Method EPA 8260						
tert-Amyl Alcohol	ND	ug/L	100	76 8	1		05/18/16 09:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3.4	1		05/18/16 09:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 09:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 09:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57 7	1		05/18/16 09:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	7.3	1		05/18/16 09:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 09:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 09:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 09:56	64-17-5	
Ethylbenzene	ND	ug/L	5 0	1.6	1		05/18/16 09:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	3.6	1		05/18/16 09 56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 09:56	1634-04-4	
Naphthalene	ND	ug/L	5 0	2.0	1		05/18/16 09:56	91-20-3	
Toluene	ND	ug/L	5 0	1.6	1		05/18/16 09 56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 09 56	1330-20-7	
m&p-Xylene	ND	ug/L	10 0	3 1	1		05/18/16 09 56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1 6	1		05/18/16 09:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/18/16 09 56	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		05/18/16 09 56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/18/16 09:56	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

Sample: MW-18									
Lab ID: 92297663020									
Collected: 05/13/16 11:00									
Received: 05/14/16 09:02									
Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 06:51	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	05/17/16 12:57	05/18/16 06:51	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 10:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 10:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 10:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 10:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 10:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 10:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 10:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 10:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 10:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 10:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 10:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 10:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 10:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 10:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 10:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 10:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 10:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 10:12	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/18/16 10:12	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		05/18/16 10:12	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No: 92297663

Sample: MW-19		Lab ID: 92297663021		Collected: 05/13/16 11:30		Received: 05/14/16 09:02		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 07:10	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	05/17/16 12:57	05/18/16 07:10	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 10:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 10:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 10:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 10:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 10:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 10:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 10:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 10:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 10:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 10:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 10:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 10:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 10:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 10:30	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 10:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 10:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 10:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 10:30	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		05/18/16 10:30	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 10:30	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: MW-19D		Lab ID: 92297663022		Collected	05/13/16 11:21	Received	05/14/16 09:02	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 07:29	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	05/17/16 12:57	05/18/16 07:29	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 11:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 11:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 11:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 11:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 11:03	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 11:03	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 11:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 11:03	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 11:03	64-17-5	M1
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 11:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 11:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 11:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 11:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 11:03	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 11:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 11:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 11:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 11:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 11:03	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		05/18/16 11:03	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No: 92297663

Sample: MW-20									
Lab ID: 92297663023									
Collected: 05/13/16 11 00									
Received: 05/14/16 09:02									
Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 07:49	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	05/17/16 12:57	05/18/16 07:49	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/18/16 17:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/18/16 17:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/18/16 17:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/18/16 17:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/18/16 17:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/18/16 17:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/18/16 17:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/18/16 17:11	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 17:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/18/16 17:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/18/16 17:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/18/16 17:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/18/16 17:11	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/18/16 17:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/18/16 17:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/18/16 17:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/18/16 17:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		05/18/16 17:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/18/16 17:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/18/16 17:11	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: SW-1 Lab ID: 92297663024 Collected 05/13/16 13:15 Received 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 08:08	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	05/17/16 12:57	05/18/16 08:08	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		05/18/16 02:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		05/18/16 02:32	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		05/18/16 02:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		05/18/16 02:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		05/18/16 02:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		05/18/16 02:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		05/18/16 02:32	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/18/16 02:32	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 02:32	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/18/16 02:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		05/18/16 02:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/18/16 02:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/18/16 02:32	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		05/18/16 02:32	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		05/18/16 02:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/18/16 02:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/18/16 02:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/18/16 02:32	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		05/18/16 02:32	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 02:32	2037-26-5	

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### ANALYTICAL RESULTS

Project 05289/52237 BURNETTE'S SVC STA

Pace Project No 92297663

**Sample: SW-2** Lab ID: 92297663025 Collected 05/13/16 13 20 Received 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 08:27	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	128	%	60-140		1	05/17/16 12:57	05/18/16 08:27	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		05/18/16 02:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		05/18/16 02:49	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		05/18/16 02:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		05/18/16 02:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		05/18/16 02:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		05/18/16 02:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		05/18/16 02:49	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/18/16 02:49	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 02:49	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/18/16 02:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		05/18/16 02:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/18/16 02:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/18/16 02:49	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		05/18/16 02:49	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		05/18/16 02:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/18/16 02:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/18/16 02:49	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/18/16 02:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/18/16 02:49	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/18/16 02:49	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No. 92297663

Sample: SW-3      Lab ID: 92297663026      Collected: 05/13/16 13 30      Received: 05/14/16 09:02      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 08:46	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	05/17/16 12:57	05/18/16 08:46	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		05/18/16 03:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		05/18/16 03:06	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		05/18/16 03:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		05/18/16 03:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		05/18/16 03:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		05/18/16 03:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		05/18/16 03:06	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/18/16 03:06	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 03:06	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/18/16 03:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		05/18/16 03:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/18/16 03:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/18/16 03:06	91-20-3	
Toluene	0.44J	ug/L	1.0	0.26	1		05/18/16 03:06	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		05/18/16 03:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/18/16 03:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/18/16 03:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 03:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/18/16 03:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 03:06	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: SW-4									
Lab ID: 92297663027									
Collected 05/13/16 13 50 Received: 05/14/16 09:02 Matrix Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0 020	0 020	1	05/17/16 12:57	05/18/16 09:06	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	125	%	60-140		1	05/17/16 12:57	05/18/16 09:06	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50 0	1		05/18/16 03:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0 10	1		05/18/16 03:24	994-05-8	
Benzene	ND	ug/L	1.0	0 25	1		05/18/16 03:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		05/18/16 03:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		05/18/16 03:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1 9	1		05/18/16 03:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0 24	1		05/18/16 03:24	107-06-2	
Diisopropyl ether	ND	ug/L	1 0	0 12	1		05/18/16 03:24	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 03:24	64-17-5	
Ethylbenzene	ND	ug/L	1 0	0 30	1		05/18/16 03:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	0 070	1		05/18/16 03:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1 0	0 21	1		05/18/16 03:24	1634-04-4	
Naphthalene	ND	ug/L	1 0	0 24	1		05/18/16 03:24	91-20-3	
Toluene	ND	ug/L	1.0	0 26	1		05/18/16 03:24	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0 66	1		05/18/16 03:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0 66	1		05/18/16 03:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	0 23	1		05/18/16 03:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 03:24	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 03:24	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 03:24	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: SW-5 Lab ID: 92297663028 Collected: 05/13/16 13:40 Received 05/14/16 09:02 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/17/16 12:57	05/18/16 09:25	106-93-4	L3
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/17/16 12:57	05/18/16 09:25	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		05/18/16 03:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		05/18/16 03:41	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		05/18/16 03:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		05/18/16 03:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		05/18/16 03:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		05/18/16 03:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		05/18/16 03:41	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/18/16 03:41	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 03:41	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/18/16 03:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		05/18/16 03:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/18/16 03:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/18/16 03:41	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		05/18/16 03:41	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		05/18/16 03:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/18/16 03:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/18/16 03:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/18/16 03:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/18/16 03:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 03:41	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No. 92297663

Sample: WSW-1 Lab ID: 92297663029 Collected 05/13/16 13 30 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/18/16 11:14	05/18/16 17:13	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	121	%	60-140		1	05/18/16 11:14	05/18/16 17:13	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		05/18/16 03:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		05/18/16 03:58	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		05/18/16 03:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		05/18/16 03:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		05/18/16 03:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		05/18/16 03:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		05/18/16 03:58	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/18/16 03:58	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 03:58	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/18/16 03:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		05/18/16 03:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/18/16 03:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/18/16 03:58	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		05/18/16 03:58	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		05/18/16 03:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/18/16 03:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/18/16 03:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 03:58	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/18/16 03:58	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/18/16 03:58	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Sample: WSW-3									
Lab ID: 92297663030									
Collected: 05/13/16 14 25									
Received: 05/14/16 09:02									
Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/18/16 11:14	05/18/16 18:11	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	149	%	60-140		1	05/18/16 11:14	05/18/16 18:11	301-79-56	S3
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		05/18/16 04:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		05/18/16 04:32	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		05/18/16 04:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		05/18/16 04:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		05/18/16 04:32	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		05/18/16 04:32	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		05/18/16 04:32	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/18/16 04:32	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/18/16 04:32	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/18/16 04:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		05/18/16 04:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/18/16 04:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/18/16 04:32	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		05/18/16 04:32	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		05/18/16 04:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/18/16 04:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/18/16 04:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/18/16 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/18/16 04:32	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/18/16 04:32	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

Sample: DUP 1		Lab ID: 92297663031		Collected	05/13/16 12:45	Received	05/14/16 09:02	Matrx	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/18/16 11:14	05/18/16 18:50	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	78	%	60-140		1	05/18/16 11:14	05/18/16 18:50	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	<b>508</b>	ug/L	100	76.8	1		05/19/16 07:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/19/16 07:34	994-05-8	
Benzene	<b>31.0</b>	ug/L	5.0	1.7	1		05/19/16 07:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/19/16 07:34	624-95-3	
tert-Butyl Alcohol	<b>161</b>	ug/L	100	57.7	1		05/19/16 07:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/19/16 07:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/19/16 07:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/19/16 07:34	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/19/16 07:34	64-17-5	L3
Ethylbenzene	<b>34.5</b>	ug/L	5.0	1.6	1		05/19/16 07:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/19/16 07:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/19/16 07:34	1634-04-4	
Naphthalene	<b>16.8</b>	ug/L	5.0	2.0	1		05/19/16 07:34	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/19/16 07:34	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/19/16 07:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/19/16 07:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/19/16 07:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/19/16 07:34	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/19/16 07:34	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/19/16 07:34	2037-26-5	

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### ANALYTICAL RESULTS

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: DUP 2 Lab ID: 92297663032 Collected: 05/13/16 13.05 Received: 05/14/16 09.02 Matrx. Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/18/16 11:14	05/18/16 19:09	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	176	%	60-140		1	05/18/16 11:14	05/18/16 19:09	301-79-56	S3
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		05/19/16 14:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	340	100		05/19/16 14:31	994-05-8	
Benzene	1140	ug/L	500	170	100		05/19/16 14:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		05/19/16 14:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		05/19/16 14:31	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		05/19/16 14:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		05/19/16 14:31	107-06-2	
Diisopropyl ether	ND	ug/L	500	170	100		05/19/16 14:31	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		05/19/16 14:31	64-17-5	L3
Ethylbenzene	778	ug/L	500	160	100		05/19/16 14:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		05/19/16 14:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	170	100		05/19/16 14:31	1634-04-4	
Naphthalene	794	ug/L	500	200	100		05/19/16 14:31	91-20-3	
Toluene	16100	ug/L	500	160	100		05/19/16 14:31	108-88-3	
Xylene (Total)	6420	ug/L	1000	270	100		05/19/16 14:31	1330-20-7	
m&p-Xylene	3770	ug/L	1000	310	100		05/19/16 14:31	179601-23-1	
o-Xylene	2660	ug/L	500	160	100		05/19/16 14:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		100		05/19/16 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		100		05/19/16 14:31	17060-07-0	
Toluene-d8 (S)	98	%	70-130		100		05/19/16 14:31	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.. 92297663

Sample: FIELD BLANK Lab ID: 92297663033 Collected: 05/13/16 14:40 Received: 05/14/16 09:02 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0 020	0.020	1	05/18/16 11 14	05/18/16 19 28	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	130	%	60-140		1	05/18/16 11 14	05/18/16 19.28	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/19/16 02 13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3 4	1		05/19/16 02:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/19/16 02 13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32 1	1		05/19/16 02:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/19/16 02:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7 3	1		05/19/16 02:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/19/16 02:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1 7	1		05/19/16 02 13	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/19/16 02:13	64-17-5	L3
Ethylbenzene	ND	ug/L	5 0	1 6	1		05/19/16 02:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3 6	1		05/19/16 02:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1 7	1		05/19/16 02 13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/19/16 02 13	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/19/16 02:13	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2 7	1		05/19/16 02:13	1330-20-7	
m&p-Xylene	ND	ug/L	10 0	3 1	1		05/19/16 02 13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/19/16 02 13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/19/16 02:13	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/19/16 02:13	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/19/16 02 13	2037-26-5	

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**ANALYTICAL RESULTS**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: TIRP BLANK 1 Lab ID: 92297663034 Collected: 05/13/16 14:41 Received: 05/14/16 09:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/19/16 02:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/19/16 02:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/19/16 02:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/19/16 02:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/19/16 02:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/19/16 02:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/19/16 02:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/19/16 02:29	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/19/16 02:29	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/19/16 02:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/19/16 02:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/19/16 02:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/19/16 02:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/19/16 02:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/19/16 02:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/19/16 02:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/19/16 02:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/19/16 02:29	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/19/16 02:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/19/16 02:29	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Sample: TIRP BLANK 2 Lab ID: 92297663035 Collected: 05/13/16 14 42 Received: 05/14/16 09 02 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/19/16 02:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/19/16 02:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/19/16 02:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/19/16 02:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/19/16 02:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/19/16 02:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/19/16 02:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/19/16 02:45	108-20-3	
Ethanol	ND	ug/L	200	131	1		05/19/16 02:45	64-17-5	L3
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/19/16 02:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/19/16 02:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/19/16 02:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/19/16 02:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/19/16 02:45	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		05/19/16 02:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/19/16 02:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/19/16 02:45	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/19/16 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/19/16 02:45	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/19/16 02:45	2037-26-5	

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

QC Batch: MSV/36885 Analysis Method: EPA 8260  
 QC Batch Method EPA 8260 Analysis Description 8260 MSV Low Level SC  
 Associated Lab Samples: 92297663024, 92297663025, 92297663026, 92297663027, 92297663028, 92297663029, 92297663030

METHOD BLANK: 1736098 Matrix: Water  
 Associated Lab Samples: 92297663024, 92297663025, 92297663026, 92297663027, 92297663028, 92297663029, 92297663030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	05/18/16 01:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	05/18/16 01:07	
Benzene	ug/L	ND	1.0	0.25	05/18/16 01:07	
Diisopropyl ether	ug/L	ND	1.0	0.12	05/18/16 01:07	
Ethanol	ug/L	ND	200	131	05/18/16 01:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	05/18/16 01:07	
Ethylbenzene	ug/L	ND	1.0	0.30	05/18/16 01:07	
m&p-Xylene	ug/L	ND	2.0	0.66	05/18/16 01:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	05/18/16 01:07	
Naphthalene	ug/L	ND	1.0	0.24	05/18/16 01:07	
o-Xylene	ug/L	ND	1.0	0.23	05/18/16 01:07	
tert-Amyl Alcohol	ug/L	ND	100	50.0	05/18/16 01:07	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	05/18/16 01:07	
tert-Butyl Alcohol	ug/L	ND	100	3.6	05/18/16 01:07	
tert-Butyl Formate	ug/L	ND	50.0	1.9	05/18/16 01:07	
Toluene	ug/L	ND	1.0	0.26	05/18/16 01:07	
Xylene (Total)	ug/L	ND	1.0	0.66	05/18/16 01:07	
1,2-Dichloroethane-d4 (S)	%	101	70-130		05/18/16 01:07	
4-Bromofluorobenzene (S)	%	100	70-130		05/18/16 01:07	
Toluene-d8 (S)	%	101	70-130		05/18/16 01:07	

LABORATORY CONTROL SAMPLE: 1736099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.9	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	50.5	101	70-130	
Diisopropyl ether	ug/L	50	52.6	105	70-130	
Ethanol	ug/L	2000	2320	116	70-130	
Ethyl-tert-butyl ether	ug/L	100	111	111	70-130	
Ethylbenzene	ug/L	50	49.0	98	70-130	
m&p-Xylene	ug/L	100	98.2	98	70-130	
Methyl-tert-butyl ether	ug/L	50	53.9	108	70-130	
Naphthalene	ug/L	50	52.7	105	70-130	
o-Xylene	ug/L	50	48.7	97	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	548	110	70-130	
tert-Butyl Formate	ug/L	400	421	105	70-130	
Toluene	ug/L	50	49.4	99	70-130	

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

LABORATORY CONTROL SAMPLE: 1736099

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1736101

Parameter	Units	92297663030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.8	114	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	437	109	70-130	
Benzene	ug/L	ND	20	24.2	121	70-130	
Diisopropyl ether	ug/L	ND	20	24.1	121	70-130	
Ethanol	ug/L	ND	800	1030	128	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	50.7	127	70-130	
Ethylbenzene	ug/L	ND	20	23.8	119	70-130	
m&p-Xylene	ug/L	ND	40	47.2	118	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	24.9	124	70-130	
Naphthalene	ug/L	ND	20	23.7	119	70-130	
o-Xylene	ug/L	ND	20	22.7	113	70-130	
tert-Amyl Alcohol	ug/L	ND	400	463	116	70-130	
tert-Amylmethyl ether	ug/L	ND	40	45.7	114	70-130	
tert-Butyl Alcohol	ug/L	ND	200	356	178	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	24.1	120	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1736100

Parameter	Units	92297663029 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: 05289/52237 BURNETTE'S SVC STA  
Pace Project No.: 92297663

SAMPLE DUPLICATE: 1736100

Parameter	Units	92297663029 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	101	2		
4-Bromofluorobenzene (S)	%	100	99	1		
Toluene-d8 (S)	%	100	101	0		

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

QC Batch:	MSV/36875	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV SC
Associated Lab Samples:	92297663002, 92297663003, 92297663005, 92297663006, 92297663007, 92297663008, 92297663009, 92297663010		

METHOD BLANK:	1735694	Matrix:	Water
Associated Lab Samples:	92297663002, 92297663003, 92297663005, 92297663006, 92297663007, 92297663008, 92297663009, 92297663010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	05/18/16 00:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	05/18/16 00:15	
Benzene	ug/L	ND	5.0	1.7	05/18/16 00:15	
Diisopropyl ether	ug/L	ND	5.0	1.7	05/18/16 00:15	
Ethanol	ug/L	ND	200	131	05/18/16 00:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	05/18/16 00:15	
Ethylbenzene	ug/L	ND	5.0	1.6	05/18/16 00:15	
m&p-Xylene	ug/L	ND	10.0	3.1	05/18/16 00:15	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	05/18/16 00:15	
Naphthalene	ug/L	ND	5.0	2.0	05/18/16 00:15	
o-Xylene	ug/L	ND	5.0	1.6	05/18/16 00:15	
tert-Amyl Alcohol	ug/L	ND	100	76.8	05/18/16 00:15	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	05/18/16 00:15	
tert-Butyl Alcohol	ug/L	ND	100	57.7	05/18/16 00:15	
tert-Butyl Formate	ug/L	ND	50.0	7.3	05/18/16 00:15	
Toluene	ug/L	ND	5.0	1.6	05/18/16 00:15	
Xylene (Total)	ug/L	ND	10.0	2.7	05/18/16 00:15	
1,2-Dichloroethane-d4 (S)	%	103	70-130		05/18/16 00:15	
4-Bromofluorobenzene (S)	%	100	70-130		05/18/16 00:15	
Toluene-d8 (S)	%	98	70-130		05/18/16 00:15	

LABORATORY CONTROL SAMPLE: 1735695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	41.6	83	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1150	115	70-130	
Benzene	ug/L	50	44.2	88	70-130	
Diisopropyl ether	ug/L	50	45.2	90	70-130	
Ethanol	ug/L	2000	2840	142	70-130 L0	
Ethyl-tert-butyl ether	ug/L	100	93.8	94	70-130	
Ethylbenzene	ug/L	50	44.8	90	70-130	
m&p-Xylene	ug/L	100	89.5	90	70-130	
Methyl-tert-butyl ether	ug/L	50	46.0	92	70-130	
Naphthalene	ug/L	50	51.4	103	70-130	
o-Xylene	ug/L	50	44.1	88	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	88.2	88	70-130	
tert-Butyl Alcohol	ug/L	500	494	99	70-130	

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

LABORATORY CONTROL SAMPLE: 1735695

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	365	91	70-130	
Toluene	ug/L	50	45.5	91	70-130	
Xylene (Total)	ug/L	150	134	89	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1735728

Parameter	Units	92297663005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.4	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	485	121	70-130	
Benzene	ug/L	ND	20	20.8	104	70-130	
Diisopropyl ether	ug/L	ND	20	20.9	104	70-130	
Ethanol	ug/L	ND	800	1470	183	70-130	M0
Ethyl-tert-butyl ether	ug/L	ND	40	42.5	106	70-130	
Ethylbenzene	ug/L	ND	20	21.1	105	70-130	
m&p-Xylene	ug/L	ND	40	42.7	104	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.2	102	70-130	
Naphthalene	ug/L	ND	20	21.6	108	70-130	
o-Xylene	ug/L	ND	20	20.4	102	70-130	
tert-Amyl Alcohol	ug/L	ND	400	454	112	70-130	
tert-Amylmethyl ether	ug/L	ND	40	39.1	98	70-130	
tert-Butyl Alcohol	ug/L	ND	200	267	124	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.8	104	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1735729

Parameter	Units	92297663006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

SAMPLE DUPLICATE: 1735729

Parameter	Units	92297663006 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	103	1		
4-Bromofluorobenzene (S)	%	97	100	3		
Toluene-d8 (S)	%	99	96	3		

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

QC Batch	MSV/36886	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV SC
Associated Lab Samples:	92297663011, 92297663012, 92297663013, 92297663014, 92297663015, 92297663017, 92297663018, 92297663019, 92297663020, 92297663021, 92297663022		

METHOD BLANK. 1736102 Matrix: Water  
 Associated Lab Samples. 92297663011, 92297663012, 92297663013, 92297663014, 92297663015, 92297663017, 92297663018, 92297663019, 92297663020, 92297663021, 92297663022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	05/18/16 01:24	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	05/18/16 01:24	
Benzene	ug/L	ND	5.0	1.7	05/18/16 01:24	
Diisopropyl ether	ug/L	ND	5.0	1.7	05/18/16 01:24	
Ethanol	ug/L	ND	200	131	05/18/16 01:24	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	05/18/16 01:24	
Ethylbenzene	ug/L	ND	5.0	1.6	05/18/16 01:24	
m&p-Xylene	ug/L	ND	10.0	3.1	05/18/16 01:24	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	05/18/16 01:24	
Naphthalene	ug/L	ND	5.0	2.0	05/18/16 01:24	
o-Xylene	ug/L	ND	5.0	1.6	05/18/16 01:24	
tert-Amyl Alcohol	ug/L	ND	100	76.8	05/18/16 01:24	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	05/18/16 01:24	
tert-Butyl Alcohol	ug/L	ND	100	57.7	05/18/16 01:24	
tert-Butyl Formate	ug/L	ND	50.0	7.3	05/18/16 01:24	
Toluene	ug/L	ND	5.0	1.6	05/18/16 01:24	
Xylene (Total)	ug/L	ND	10.0	2.7	05/18/16 01:24	
1,2-Dichloroethane-d4 (S)	%	102	70-130		05/18/16 01:24	
4-Bromofluorobenzene (S)	%	101	70-130		05/18/16 01:24	
Toluene-d8 (S)	%	100	70-130		05/18/16 01:24	

LABORATORY CONTROL SAMPLE 1736103

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.6	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1150	115	70-130	
Benzene	ug/L	50	49.4	99	70-130	
Diisopropyl ether	ug/L	50	50.8	102	70-130	
Ethanol	ug/L	2000	2200	110	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	48.0	96	70-130	
m&p-Xylene	ug/L	100	95.1	95	70-130	
Methyl-tert-butyl ether	ug/L	50	51.7	103	70-130	
Naphthalene	ug/L	50	53.0	106	70-130	
o-Xylene	ug/L	50	46.7	93	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	552	110	70-130	

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

LABORATORY CONTROL SAMPLE 1736103

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	417	104	70-130	
Toluene	ug/L	50	47.8	96	70-130	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1736105

Parameter	Units	92297663022 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.7	113	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	413	103	70-130	
Benzene	ug/L	ND	20	24.6	123	70-130	
Diisopropyl ether	ug/L	ND	20	24.9	124	70-130	
Ethanol	ug/L	ND	800	1070	134	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	49.9	125	70-130	
Ethylbenzene	ug/L	ND	20	22.5	112	70-130	
m&p-Xylene	ug/L	ND	40	44.7	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	24.0	120	70-130	
Naphthalene	ug/L	ND	20	21.1	106	70-130	
o-Xylene	ug/L	ND	20	22.2	111	70-130	
tert-Amyl Alcohol	ug/L	ND	400	443	111	70-130	
tert-Amylmethyl ether	ug/L	ND	40	44.9	112	70-130	
tert-Butyl Alcohol	ug/L	ND	200	359	180	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	23.9	117	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1736104

Parameter	Units	92297663021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

SAMPLE DUPLICATE 1736104

Parameter	Units	92297663021 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	105	1		
4-Bromofluorobenzene (S)	%	100	103	3		
Toluene-d8 (S)	%	101	101	0		

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA

Pace Project No.: 92297663

QC Batch: MSV/36890 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92297663001, 92297663004

METHOD BLANK: 1736499 Matrix: Water  
 Associated Lab Samples: 92297663001, 92297663004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	05/18/16 12:39	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	05/18/16 12:39	
Benzene	ug/L	ND	5.0	1.7	05/18/16 12:39	
Diisopropyl ether	ug/L	ND	5.0	1.7	05/18/16 12:39	
Ethanol	ug/L	283	200	131	05/18/16 12:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	05/18/16 12:39	
Ethylbenzene	ug/L	ND	5.0	1.6	05/18/16 12:39	
m&p-Xylene	ug/L	ND	10.0	3.1	05/18/16 12:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	05/18/16 12:39	
Naphthalene	ug/L	ND	5.0	2.0	05/18/16 12:39	
o-Xylene	ug/L	ND	5.0	1.6	05/18/16 12:39	
tert-Amyl Alcohol	ug/L	ND	100	76.8	05/18/16 12:39	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	05/18/16 12:39	
tert-Butyl Alcohol	ug/L	ND	100	57.7	05/18/16 12:39	
tert-Butyl Formate	ug/L	ND	50.0	7.3	05/18/16 12:39	
Toluene	ug/L	ND	5.0	1.6	05/18/16 12:39	
Xylene (Total)	ug/L	ND	10.0	2.7	05/18/16 12:39	
1,2-Dichloroethane-d4 (S)	%	99	70-130		05/18/16 12:39	
4-Bromofluorobenzene (S)	%	100	70-130		05/18/16 12:39	
Toluene-d8 (S)	%	98	70-130		05/18/16 12:39	

LABORATORY CONTROL SAMPLE: 1736500

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	35.5	71	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	876	88	70-130	
Benzene	ug/L	50	36.5	73	70-130	
Diisopropyl ether	ug/L	50	38.0	76	70-130	
Ethanol	ug/L	2000	2510	125	70-130	
Ethyl-tert-butyl ether	ug/L	100	79.0	79	70-130	
Ethylbenzene	ug/L	50	36.7	73	70-130	
m&p-Xylene	ug/L	100	74.4	74	70-130	
Methyl-tert-butyl ether	ug/L	50	38.4	77	70-130	
Naphthalene	ug/L	50	42.1	84	70-130	
o-Xylene	ug/L	50	36.9	74	70-130	
tert-Amyl Alcohol	ug/L	1000	840	84	70-130	
tert-Amylmethyl ether	ug/L	100	74.2	74	70-130	
tert-Butyl Alcohol	ug/L	500	379	76	70-130	
tert-Butyl Formate	ug/L	400	308	77	70-130	
Toluene	ug/L	50	37.8	76	70-130	

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No : 92297663

LABORATORY CONTROL SAMPLE 1736500

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	111	74	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1736501

Parameter	Units	92297482001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.8	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	444	111	70-130	
Benzene	ug/L	14.1	20	35.4	106	70-130	
Diisopropyl ether	ug/L	9.2	20	29.4	101	70-130	
Ethanol	ug/L	ND	800	592	68	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	40.5	101	70-130	
Ethylbenzene	ug/L	ND	20	19.9	78	70-130	
m&p-Xylene	ug/L	ND	40	26.5	66	70-130	M1
Methyl-tert-butyl ether	ug/L	15.9	20	37.6	109	70-130	
Naphthalene	ug/L	ND	20	9.4	46	70-130	M1
o-Xylene	ug/L	ND	20	13.5	66	70-130	M1
tert-Amyl Alcohol	ug/L	ND	400	428	104	70-130	
tert-Amylmethyl ether	ug/L	17.3	40	56.3	98	70-130	
tert-Butyl Alcohol	ug/L	ND	200	268	124	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	2	70-130	P5
Toluene	ug/L	ND	20	15.0	74	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE. 1736502

Parameter	Units	92297482007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	17.3	17.9	4	30	
m&p-Xylene	ug/L	ND	4.2J		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	2.9J		30	
o-Xylene	ug/L	ND	1.8J		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

SAMPLE DUPLICATE: 1736502

Parameter	Units	92297482007 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	98	3		
4-Bromofluorobenzene (S)	%	100	101	1		
Toluene-d8 (S)	%	98	98	0		

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No. 92297663

QC Batch: MSV/36893 Analysis Method EPA 8260  
 QC Batch Method EPA 8260 Analysis Description 8260 MSV SC  
 Associated Lab Samples 92297663023

METHOD BLANK. 1736765 Matrix: Water  
 Associated Lab Samples 92297663023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	05/18/16 12:55	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	05/18/16 12:55	
Benzene	ug/L	ND	5.0	1.7	05/18/16 12:55	
Diisopropyl ether	ug/L	ND	5.0	1.7	05/18/16 12:55	
Ethanol	ug/L	135J	200	131	05/18/16 12:55	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	05/18/16 12:55	
Ethylbenzene	ug/L	ND	5.0	1.6	05/18/16 12:55	
m&p-Xylene	ug/L	ND	10.0	3.1	05/18/16 12:55	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	05/18/16 12:55	
Naphthalene	ug/L	ND	5.0	2.0	05/18/16 12:55	
o-Xylene	ug/L	ND	5.0	1.6	05/18/16 12:55	
tert-Amyl Alcohol	ug/L	ND	100	76.8	05/18/16 12:55	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	05/18/16 12:55	
tert-Butyl Alcohol	ug/L	ND	100	57.7	05/18/16 12:55	
tert-Butyl Formate	ug/L	ND	50.0	7.3	05/18/16 12:55	
Toluene	ug/L	ND	5.0	1.6	05/18/16 12:55	
Xylene (Total)	ug/L	ND	10.0	2.7	05/18/16 12:55	
1,2-Dichloroethane-d4 (S)	%	100	70-130		05/18/16 12:55	
4-Bromofluorobenzene (S)	%	99	70-130		05/18/16 12:55	
Toluene-d8 (S)	%	98	70-130		05/18/16 12:55	

LABORATORY CONTROL SAMPLE. 1736766

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	35.5	71	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	876	88	70-130	
Benzene	ug/L	50	36.5	73	70-130	
Diisopropyl ether	ug/L	50	38.0	76	70-130	
Ethanol	ug/L	2000	2510	125	70-130	
Ethyl-tert-butyl ether	ug/L	100	79.0	79	70-130	
Ethylbenzene	ug/L	50	36.7	73	70-130	
m&p-Xylene	ug/L	100	74.4	74	70-130	
Methyl-tert-butyl ether	ug/L	50	38.4	77	70-130	
Naphthalene	ug/L	50	42.1	84	70-130	
o-Xylene	ug/L	50	36.9	74	70-130	
tert-Amyl Alcohol	ug/L	1000	840	84	70-130	
tert-Amylmethyl ether	ug/L	100	74.2	74	70-130	
tert-Butyl Alcohol	ug/L	500	379	76	70-130	
tert-Butyl Formate	ug/L	400	308	77	70-130	
Toluene	ug/L	50	37.8	76	70-130	

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### QUALITY CONTROL DATA

Project: 05289/52237 BURNETTE'S SVC STA

Pace Project No.: 92297663

LABORATORY CONTROL SAMPLE 1736766

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	111	74	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

QC Batch: MSV/36896 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92297663031, 92297663033, 92297663034, 92297663035

METHOD BLANK: 1736822 Matrix: Water  
 Associated Lab Samples: 92297663031, 92297663033, 92297663034, 92297663035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	05/19/16 01:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	05/19/16 01:41	
Benzene	ug/L	ND	5.0	1.7	05/19/16 01:41	
Diisopropyl ether	ug/L	ND	5.0	1.7	05/19/16 01:41	
Ethanol	ug/L	185J	200	131	05/19/16 01:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	05/19/16 01:41	
Ethylbenzene	ug/L	ND	5.0	1.6	05/19/16 01:41	
m&p-Xylene	ug/L	ND	10.0	3.1	05/19/16 01:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	05/19/16 01:41	
Naphthalene	ug/L	ND	5.0	2.0	05/19/16 01:41	
o-Xylene	ug/L	ND	5.0	1.6	05/19/16 01:41	
tert-Amyl Alcohol	ug/L	ND	100	76.8	05/19/16 01:41	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	05/19/16 01:41	
tert-Butyl Alcohol	ug/L	ND	100	57.7	05/19/16 01:41	
tert-Butyl Formate	ug/L	ND	50.0	7.3	05/19/16 01:41	
Toluene	ug/L	ND	5.0	1.6	05/19/16 01:41	
Xylene (Total)	ug/L	ND	10.0	2.7	05/19/16 01:41	
1,2-Dichloroethane-d4 (S)	%	100	70-130		05/19/16 01:41	
4-Bromofluorobenzene (S)	%	101	70-130		05/19/16 01:41	
Toluene-d8 (S)	%	98	70-130		05/19/16 01:41	

LABORATORY CONTROL SAMPLE 1736823

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.8	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1160	116	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Diisopropyl ether	ug/L	50	48.4	97	70-130	
Ethanol	ug/L	2000	2880	144	70-130 LO	
Ethyl-tert-butyl ether	ug/L	100	99.3	99	70-130	
Ethylbenzene	ug/L	50	49.6	99	70-130	
m&p-Xylene	ug/L	100	98.6	99	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Naphthalene	ug/L	50	51.3	103	70-130	
o-Xylene	ug/L	50	48.3	97	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	94.0	94	70-130	
tert-Butyl Alcohol	ug/L	500	473	95	70-130	
tert-Butyl Formate	ug/L	400	387	97	70-130	
Toluene	ug/L	50	48.9	98	70-130	

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.. 92297663

LABORATORY CONTROL SAMPLE: 1736823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE. 1736824

Parameter	Units	92297686016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.0	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	565	141	70-130	M1
Benzene	ug/L	ND	20	20.5	102	70-130	
Diisopropyl ether	ug/L	ND	20	20.1	100	70-130	
Ethanol	ug/L	ND	800	1870	234	70-130	M0
Ethyl-tert-butyl ether	ug/L	ND	40	41.8	105	70-130	
Ethylbenzene	ug/L	ND	20	21.1	105	70-130	
m&p-Xylene	ug/L	ND	40	42.2	105	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.7	103	70-130	
Naphthalene	ug/L	ND	20	21.7	105	70-130	
o-Xylene	ug/L	ND	20	20.4	102	70-130	
tert-Amyl Alcohol	ug/L	ND	400	511	125	70-130	
tert-Amylmethyl ether	ug/L	ND	40	38.2	96	70-130	
tert-Butyl Alcohol	ug/L	ND	200	305	152	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.4	102	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1736825

Parameter	Units	92297686017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

SAMPLE DUPLICATE: 1736825

Parameter	Units	92297686017 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	100	2		
4-Bromofluorobenzene (S)	%	99	100	0		
Toluene-d8 (S)	%	99	97	2		

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

QC Batch: MSV/36909 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92297663032

METHOD BLANK. 1737838 Matrix: Water  
 Associated Lab Samples 92297663032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	05/19/16 13:27	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	05/19/16 13:27	
Benzene	ug/L	ND	5.0	1.7	05/19/16 13:27	
Diisopropyl ether	ug/L	ND	5.0	1.7	05/19/16 13:27	
Ethanol	ug/L	303	200	131	05/19/16 13:27	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	05/19/16 13:27	
Ethylbenzene	ug/L	ND	5.0	1.6	05/19/16 13:27	
m&p-Xylene	ug/L	ND	10.0	3.1	05/19/16 13:27	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	05/19/16 13:27	
Naphthalene	ug/L	ND	5.0	2.0	05/19/16 13:27	
o-Xylene	ug/L	ND	5.0	1.6	05/19/16 13:27	
tert-Amyl Alcohol	ug/L	ND	100	76.8	05/19/16 13:27	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	05/19/16 13:27	
tert-Butyl Alcohol	ug/L	ND	100	57.7	05/19/16 13:27	
tert-Butyl Formate	ug/L	ND	50.0	7.3	05/19/16 13:27	
Toluene	ug/L	ND	5.0	1.6	05/19/16 13:27	
Xylene (Total)	ug/L	ND	10.0	2.7	05/19/16 13:27	
1,2-Dichloroethane-d4 (S)	%	100	70-130		05/19/16 13:27	
4-Bromofluorobenzene (S)	%	102	70-130		05/19/16 13:27	
Toluene-d8 (S)	%	99	70-130		05/19/16 13:27	

LABORATORY CONTROL SAMPLE. 1737839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.1	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1210	121	70-130	
Benzene	ug/L	50	47.2	94	70-130	
Diisopropyl ether	ug/L	50	47.9	96	70-130	
Ethanol	ug/L	2000	2980	149	70-130 L0	
Ethyl-tert-butyl ether	ug/L	100	99.1	99	70-130	
Ethylbenzene	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	95.4	95	70-130	
Methyl-tert-butyl ether	ug/L	50	47.1	94	70-130	
Naphthalene	ug/L	50	52.4	105	70-130	
o-Xylene	ug/L	50	46.6	93	70-130	
tert-Amyl Alcohol	ug/L	1000	1170	117	70-130	
tert-Amylmethyl ether	ug/L	100	93.1	93	70-130	
tert-Butyl Alcohol	ug/L	500	500	100	70-130	
tert-Butyl Formate	ug/L	400	390	97	70-130	
Toluene	ug/L	50	48.6	97	70-130	

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

LABORATORY CONTROL SAMPLE: 1737839

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1737840

Parameter	Units	92297686034 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	200	200	92	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	5650	141	70-130	M1
Benzene	ug/L	1780	200	1890	55	70-130	M1
Diisopropyl ether	ug/L	ND	200	212	106	70-130	
Ethanol	ug/L	ND	8000	22000	275	70-130	M0
Ethyl-tert-butyl ether	ug/L	ND	400	422	106	70-130	
Ethylbenzene	ug/L	767	200	922	78	70-130	
m&p-Xylene	ug/L	1040	400	1390	87	70-130	
Methyl-tert-butyl ether	ug/L	53.2	200	241	94	70-130	
Naphthalene	ug/L	200	200	421	110	70-130	
o-Xylene	ug/L	292	200	472	90	70-130	
tert-Amyl Alcohol	ug/L	2170	4000	7810	141	70-130	M1
tert-Amylmethyl ether	ug/L	ND	400	387	96	70-130	
tert-Butyl Alcohol	ug/L	ND	2000	2900	142	70-130	M1
tert-Butyl Formate	ug/L	ND	1600	572	36	70-130	P5
Toluene	ug/L	968	200	1140	88	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1737841

Parameter	Units	92297686035 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	1900	1870	2	30	
Diisopropyl ether	ug/L	21.3J	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	571	565	1	30	
m&p-Xylene	ug/L	833	815	2	30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	131	124	6	30	
o-Xylene	ug/L	517	514	1	30	
tert-Amyl Alcohol	ug/L	3250	3580	10	30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

SAMPLE DUPLICATE: 1737841

Parameter	Units	92297686035 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	770	762	1	30	
Xylene (Total)	ug/L	1350	1330	2	30	
1,2-Dichloroethane-d4 (S)	%	101	99	1		
4-Bromofluorobenzene (S)	%	100	101	0		
Toluene-d8 (S)	%	99	100	0		

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### QUALITY CONTROL DATA

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

QC Batch:	MSV/36945	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV SC
Associated Lab Samples:	92297663016		

METHOD BLANK: 1740052 Matrix: Water  
 Associated Lab Samples: 92297663016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	05/23/16 11:26	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	05/23/16 11:26	
Benzene	ug/L	ND	5.0	1.7	05/23/16 11:26	
Diisopropyl ether	ug/L	ND	5.0	1.7	05/23/16 11:26	
Ethanol	ug/L	ND	200	131	05/23/16 11:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	05/23/16 11:26	
Ethylbenzene	ug/L	ND	5.0	1.6	05/23/16 11:26	
m&p-Xylene	ug/L	ND	10.0	3.1	05/23/16 11:26	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	05/23/16 11:26	
Naphthalene	ug/L	ND	5.0	2.0	05/23/16 11:26	
o-Xylene	ug/L	ND	5.0	1.6	05/23/16 11:26	
tert-Amyl Alcohol	ug/L	ND	100	76.8	05/23/16 11:26	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	05/23/16 11:26	
tert-Butyl Alcohol	ug/L	ND	100	57.7	05/23/16 11:26	
tert-Butyl Formate	ug/L	ND	50.0	7.3	05/23/16 11:26	
Toluene	ug/L	ND	5.0	1.6	05/23/16 11:26	
Xylene (Total)	ug/L	ND	10.0	2.7	05/23/16 11:26	
1,2-Dichloroethane-d4 (S)	%	99	70-130		05/23/16 11:26	
4-Bromofluorobenzene (S)	%	100	70-130		05/23/16 11:26	
Toluene-d8 (S)	%	108	70-130		05/23/16 11:26	

LABORATORY CONTROL SAMPLE 1740053

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.5	85	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1240	124	70-130	
Benzene	ug/L	50	46.3	93	70-130	
Diisopropyl ether	ug/L	50	49.6	99	70-130	
Ethanol	ug/L	2000	3260	163	70-130 L0	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	43.7	87	70-130	
m&p-Xylene	ug/L	100	86.5	87	70-130	
Methyl-tert-butyl ether	ug/L	50	47.5	95	70-130	
Naphthalene	ug/L	50	51.0	102	70-130	
o-Xylene	ug/L	50	41.6	83	70-130	
tert-Amyl Alcohol	ug/L	1000	1250	125	70-130	
tert-Amylmethyl ether	ug/L	100	94.0	94	70-130	
tert-Butyl Alcohol	ug/L	500	627	125	70-130	
tert-Butyl Formate	ug/L	400	420	105	70-130	
Toluene	ug/L	50	43.8	88	70-130	

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

LABORATORY CONTROL SAMPLE: 1740053

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	128	85	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			97	70-130	

SAMPLE DUPLICATE 1740055

Parameter	Units	92297966032 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND			30
3,3-Dimethyl-1-Butanol	ug/L	ND	ND			30
Benzene	ug/L	ND	ND			30
Diisopropyl ether	ug/L	ND	ND			30
Ethanol	ug/L	ND	ND			30
Ethyl-tert-butyl ether	ug/L	ND	ND			30
Ethylbenzene	ug/L	ND	ND			30
m&p-Xylene	ug/L	ND	ND			30
Methyl-tert-butyl ether	ug/L	2.4J	ND			30
Naphthalene	ug/L	ND	ND			30
o-Xylene	ug/L	ND	ND			30
tert-Amyl Alcohol	ug/L	ND	ND			30
tert-Amylmethyl ether	ug/L	ND	ND			30
tert-Butyl Alcohol	ug/L	ND	ND			30
tert-Butyl Formate	ug/L	ND	ND			30
Toluene	ug/L	ND	ND			30
Xylene (Total)	ug/L	ND	ND			30
1,2-Dichloroethane-d4 (S)	%	101	102		1	
4-Bromofluorobenzene (S)	%	99	100		1	
Toluene-d8 (S)	%	106	108		1	

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

QC Batch: OEXT/42610 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92297663001, 92297663002, 92297663003, 92297663004, 92297663005, 92297663006, 92297663007, 92297663008

METHOD BLANK: 1735204 Matrix Water  
 Associated Lab Samples: 92297663001, 92297663002, 92297663003, 92297663004, 92297663005, 92297663006, 92297663007, 92297663008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	05/17/16 16:45	
1-Chloro-2-bromopropane (S)	%	121	60-140		05/17/16 16:45	

LABORATORY CONTROL SAMPLE & LCSD. 1735205 1735206

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	29	0.34	0.37	116	132	60-140	11	20	
1-Chloro-2-bromopropane (S)	%				114	125	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1735207 1735208

Parameter	Units	92297642005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L				0.38	0.39					1	20
1-Chloro-2-bromopropane (S)	%						127	131	60-140			

SAMPLE DUPLICATE: 1735209

Parameter	Units	92297642008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L		ND		20	
1-Chloro-2-bromopropane (S)	%	156	125	19		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

QC Batch:	OEXT/42611	Analysis Method	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description	GCS 8011 EDB DBCP
Associated Lab Samples	92297663009, 92297663010, 92297663011, 92297663012, 92297663013, 92297663014, 92297663015, 92297663016, 92297663017, 92297663018, 92297663019, 92297663020, 92297663021, 92297663022, 92297663023, 92297663024, 92297663025, 92297663026, 92297663027, 92297663028		

METHOD BLANK:	1735210	Matrix:	Water
Associated Lab Samples	92297663009, 92297663010, 92297663011, 92297663012, 92297663013, 92297663014, 92297663015, 92297663016, 92297663017, 92297663018, 92297663019, 92297663020, 92297663021, 92297663022, 92297663023, 92297663024, 92297663025, 92297663026, 92297663027, 92297663028		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	05/18/16 01:25	
1-Chloro-2-bromopropane (S)	%	113	60-140		05/18/16 01:25	

LABORATORY CONTROL SAMPLE & LCSD:		1735211	1735212							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	28	0.31	0.48	114	168	60-140	41	20	L0,R1
1-Chloro-2-bromopropane (S)	%				113	164	60-140			S0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1735213	1735214									
Parameter	Units	92297663010 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.27	.27	0.36	0.41	132	150	60-140	13	20	M1
1-Chloro-2-bromopropane (S)	%						124	128	60-140			

SAMPLE DUPLICATE:		1735215	92297663012		Dup Result	RPD	Max RPD	Qualifiers
Parameter	Units	Result	Result	Result	Result	Result	Result	Result
1,2-Dibromoethane (EDB)	ug/L	ND	ND	ND	ND	ND	20	
1-Chloro-2-bromopropane (S)	%	114	76	76	76	40		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

QC Batch OEXT/42630 Analysis Method EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92297663029, 92297663030, 92297663031, 92297663032, 92297663033

METHOD BLANK: 1736183 Matrix: Water  
 Associated Lab Samples: 92297663029, 92297663030, 92297663031, 92297663032, 92297663033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.021	0.021	05/18/16 13 41	
1-Chloro-2-bromopropane (S)	%	116	60-140		05/18/16 13 41	

LABORATORY CONTROL SAMPLE & LCSD 1736184 1736185

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	29	0.40	0.34	136	120	60-140	14	20	
1-Chloro-2-bromopropane (S)	%				126	112	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1736186 1736187

Parameter	Units	92297663029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	28	0.30	0.32	108	114	60-140	5	20	
1-Chloro-2-bromopropane (S)	%						108	117	60-140			

SAMPLE DUPLICATE: 1736188

Parameter	Units	92297663030 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	149	138	8		

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 05289/52237 BURNETTE'S SVC STA  
Pace Project No. 92297663

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot  
ND - Not Detected at or above adjusted reporting limit.  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270 The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrx Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits  
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits Analyte presence below reporting limits in associated samples Results unaffected by high bias.  
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits  
M1 Matrix spike recovery exceeded QC limits Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
R1 RPD value was outside control limits  
S0 Surrogate recovery outside laboratory control limits.  
S3 Surrogate recovery exceeded laboratory control limits Analyte presence below reporting limits in associated samples Results unaffected by high bias

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No.: 92297663

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92297663001	MW-1	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663002	MW-2	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663003	MW-2D	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663004	MW-3	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663005	MW-4	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663006	MW-5	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663007	MW-7	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663008	MW-7D	EPA 8011	OEXT/42610	EPA 8011	GCSV/25005
92297663009	MW-8	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663010	MW-9	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663011	MW-10	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663012	MW-11	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663013	MW-13	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663014	MW-14	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663015	MW-14D	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663016	MW-15	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663017	MW-16	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663018	MW-17	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663019	MW-17D	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663020	MW-18	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663021	MW-19	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663022	MW-19D	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663023	MW-20	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663024	SW-1	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663025	SW-2	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663026	SW-3	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663027	SW-4	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663028	SW-5	EPA 8011	OEXT/42611	EPA 8011	GCSV/25007
92297663029	WSW-1	EPA 8011	OEXT/42630	EPA 8011	GCSV/25019
92297663030	WSW-3	EPA 8011	OEXT/42630	EPA 8011	GCSV/25019
92297663031	DUP 1	EPA 8011	OEXT/42630	EPA 8011	GCSV/25019
92297663032	DUP 2	EPA 8011	OEXT/42630	EPA 8011	GCSV/25019
92297663033	FIELD BLANK	EPA 8011	OEXT/42630	EPA 8011	GCSV/25019
92297663024	SW-1	EPA 8260	MSV/36885		
92297663025	SW-2	EPA 8260	MSV/36885		
92297663026	SW-3	EPA 8260	MSV/36885		
92297663027	SW-4	EPA 8260	MSV/36885		
92297663028	SW-5	EPA 8260	MSV/36885		
92297663029	WSW-1	EPA 8260	MSV/36885		
92297663030	WSW-3	EPA 8260	MSV/36885		
92297663001	MW-1	EPA 8260	MSV/36890		
92297663002	MW-2	EPA 8260	MSV/36875		
92297663003	MW-2D	EPA 8260	MSV/36875		
92297663004	MW-3	EPA 8260	MSV/36890		
92297663005	MW-4	EPA 8260	MSV/36875		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 05289/52237 BURNETTE'S SVC STA  
 Pace Project No 92297663

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92297663006	MW-5	EPA 8260	MSV/36875		
92297663007	MW-7	EPA 8260	MSV/36875		
92297663008	MW-7D	EPA 8260	MSV/36875		
92297663009	MW-8	EPA 8260	MSV/36875		
92297663010	MW-9	EPA 8260	MSV/36875		
92297663011	MW-10	EPA 8260	MSV/36886		
92297663012	MW-11	EPA 8260	MSV/36886		
92297663013	MW-13	EPA 8260	MSV/36886		
92297663014	MW-14	EPA 8260	MSV/36886		
92297663015	MW-14D	EPA 8260	MSV/36886		
92297663016	MW-15	EPA 8260	MSV/36945		
92297663017	MW-16	EPA 8260	MSV/36886		
92297663018	MW-17	EPA 8260	MSV/36886		
92297663019	MW-17D	EPA 8260	MSV/36886		
92297663020	MW-18	EPA 8260	MSV/36886		
92297663021	MW-19	EPA 8260	MSV/36886		
92297663022	MW-19D	EPA 8260	MSV/36886		
92297663023	MW-20	EPA 8260	MSV/36893		
92297663031	DUP 1	EPA 8260	MSV/36896		
92297663032	DUP 2	EPA 8260	MSV/36909		
92297663033	FIELD BLANK	EPA 8260	MSV/36896		
92297663034	TIRP BLANK 1	EPA 8260	MSV/36896		
92297663035	TIRP BLANK 2	EPA 8260	MSV/36896		

**REPORT OF LABORATORY ANALYSIS**

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	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 18FEB2016 Page 1 of 2
	Document No.: <b>F-CHR-CS-003-rev.18</b>	Issuing Authority: Pace Huntersville Quality Office

Page 2 of 2 for Internal Use ONLY

**Sample Condition Upon Receipt**

Client Name:

SCDEC-UST

Project #: **WO# : 92297663**



92297663

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other: \_\_\_\_\_  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: BV 5/16/16

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

Thermometer:  T1505  \_\_\_\_\_ Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Correction Factor: 0.0°C Cooler Temp Corrected (°C): 1.6 Biological Tissue Frozen?  Yes  No  N/A

Temp should be above freezing to 6°C

USDA Regulated Soil ( N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

Yes  No

**COMMENTS:**

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11: Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples checked for dechlorination	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5-6mm)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. MW-1(5) MW-5(4) MW-8(6) Dup 2(5)
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. MW-16(2) MW-18(1) SW-1(1) FB-2(1)
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	SW-2(3) SW-3(6) SW-4(1)
Pace Trip Blank Lot # (if purchased):		SW-5(6) WSW-1(3) WSW-3(6)

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

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

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

Project Manager SCURF Review: TC Date: 5/16/16

Project Manager SRF Review: TC Date: 5/20/16

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



CHAIN-OF-CUSTODY / Analytical Request Document
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1997149

Section A Required Client Information: Company SCDHEC-UST, Address 2600 Bull Street, Columbia, SC 29201. Section B Required Project Information: Report To J Bryant-UST, Copy To: Project Name Burnetts's Sew. Sta. Section C Invoice Information: Attention: Invoice Reference: T. Carter, Pace Profile #: 849-1. REGULATORY AGENCY: NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER. Site Location: SC Jasper.

Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / .). Matrix Codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AP, Tissue TS, Other OT. Table with columns for ITEM #, MATRIX CODE, SAMPLE TYPE, COLLECTED (DATE, TIME), PRESERVATIVES (H2SO4, HNO3, HCl, NaOH, Na2S2O8, Methanol, Other), ANALYSIS TEST (BTEX, NM, DLA, Dxy, EDB), and Residual Chlorine (Y/N).

ADDITIONAL COMMENTS: Peter J. Wyke/MECI. RELINQUISHED BY / AFFILIATION: Peter J. Wyke/MECI. DATE: 5/13/16. TIME: 17:00. ACCEPTED BY / AFFILIATION: [Signature], DATE: 5/14/16, TIME: 09:02. SAMPLE CONDITIONS: 1.6, Y, N, Y.

ORIGINAL
SAMPLER NAME AND SIGNATURE: Peter J. Wyke
PRINT Name of SAMPLER: Peter J. Wyke
SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 5/13/16
Temp in °C: [ ]
Ived on (Y/N): [ ]

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

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### CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <b>SLDHEC-UST</b>	Report To: <b>J. Bryant - UST</b>	Attention:			
Address: <b>2600 Bull Street Columbia, SC 29201</b>	Copy To:	Company Name:	<b>REGULATORY AGENCY</b>		
Email To: <b>bryant.j@dhec.sc.gov</b>	Purchase Order No.: <b>4600422513</b>	Address:	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		
Phone: <b>803-898-0606</b>	Fax: <b>803-898-0675</b>	Pace Quote Reference:	Pace Project Manager: <b>T. Carter</b>	Site Location:	<b>SC</b>
Requested Due Date/TAT:	Project Number: <b>UST 05289/PAGE CA</b>	Pace Profile #:	STATE: <b>SC</b>		

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMB)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓ Y/N	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.				
					COMPOSITE START	COMPOSITE ENDIGRAB					Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol	Other									
1	SW-1	DW	DWG	G	5/13/16	13:15			6									X	X	X	X				LDLs	024	
2	SW-2	WT				13:20												X	X	X	X					025	
3	SW-3	WW				13:30												X	X	X	X					026	
4	SW-4	P				13:50												X	X	X	X					027	
5	SW-5	SL				13:40												X	X	X	X					028	
6	WSW-1	OL	DWG	G	5/13/16	13:30			6									X	X	X	X				LDLs	029	
7	WSW-2	WP																X	X	X	X					Not sampled	
8	WSW-3	AR	DWG	G	5/13/16	14:25			6									X	X	X	X				LDLs	030	
9	WSW-4	TS																X	X	X	X					Not sampled	
10	Dup 1	OT	WTG	G	5/13/16	12:45			6									X	X	X	X					Odor	031
11	Dup 2		WTG	G		13:05			6									X	X	X	X					Odor/shreen	032
12	Field blank		WTG	G	5/13/16	14:40			6									X	X	X	X					Field blank	033

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Peter J. Wylie/MECT	5/13/16	17:00	Tyreek Horne/pace Hcl	5/14/16	0900	160	4	10	5

ORIGINAL

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <b>Peter J. Wylie</b>		DATE Signed (MM/DD/YY): <b>5/13/16</b>	
SIGNATURE of SAMPLER: <i>Peter J. Wylie</i>			

Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)

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



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 4 1997146

Section A: Required Client Information (Company: SCDHEC-UST, Address: 2600 Bull Street, Columbia, SC 29201). Section B: Required Project Information (Report To: J. Bryant-UST, Project Name: Burnetts Svc Sta). Section C: Invoice Information (Attention: J. Carter, Site Location: Jasper).

Main data table with columns: ITEM #, SAMPLE ID, COLLECTED (DATE, TIME), PRESERVATIVES, ANALYSIS TEST (METALS, TOX, RAD, PCB, DDT, DIBS), and Residual Chlorine (Y/N).

Table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, and SAMPLE CONDITIONS.

ORIGINAL

SAMPLER NAME AND SIGNATURE section including PRINT Name of SAMPLER (Pete J. Wyde), SIGNATURE of SAMPLER (handwritten), and DATE Signed (5/13/16).

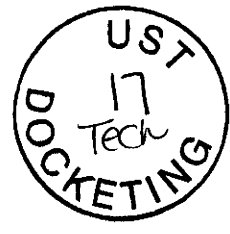
\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



05289

MR RONNIE LOWDER  
 EMERALD INC  
 P O BOX 3050  
 SUMTER SC 29151-3050

**OCT 04 2016**



Re: Aggressive fluid and vapor recovery (AFVR) directive  
 Contract #IFB-5400010441-11/24/15-EMW; PO #4600462870  
 Notice to proceed

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, and per the schedule submitted to the Underground Storage Tank (UST) Management Division on October 3, 2016, aggressive fluid and vapor recovery (AFVR) has been approved for the UST facilities listed below. Emerald, Inc. may proceed upon receipt of this letter. Enclosed are packets containing necessary information to perform AFVR at each facility. Each facility has been assigned an individual cost agreement (CA) number, work scope, work scope start date, and report due date. As specified in the contract, a report and invoice must be submitted on or before the due date. The appropriate CA number and Purchase Order (PO) #4600462870 should be referenced on each invoice submitted.

Permit	Facility	County	Work Scope	CA	Start Date	Report Date
00487	Former Ford Specialist	Anderson	1 96-hour event	52923	1/23/17	2/2/17
01253	Mack's Camp	Berkeley	1 96-hour event	52121	11/14/16	11/24/16
02399	Terry's Exxon	Clarendon	1 96-hour event	52736	12/5/16	12/15/16
02459	Smith's	Clarendon	1 96-hour event	52741	12/5/16	12/15/16
03426	Perry's Grocery	Horry	1 96-hour event	52430	1/23/17	2/2/17
05289	Burnette's Service Station	Jasper	1 96-hour event	52874	12/12/16	12/22/16
06994	Glover's Gulf	Orangeburg	1 96-hour event	52798	2/20/17	3/2/17
07001	Smith's 66	Orangeburg	1 96-hour event	50132	1/2/17	1/12/17
07783	Brazzel's Grocery	Richland	1 96-hour event	52350	12/12/16	12/22/16
09609	Barnwell Maintenance	Barnwell	1 96-hour event	52287	1/9/17	1/19/17
10658	Joker Joes	Jasper	1 96-hour event	52892	1/9/17	1/19/17
11671	Randy's Auto Parts	Bamberg	1 96-hour event	51874	1/9/17	1/19/17
12097	Greenwave Amoco #1	Dorchester	1 96-hour event	52859	1/2/17	1/12/17



12581	A.A. Kelley & Son	York	1 96-hour event	52803	2/3/17	2/23/17
12708	Short Trip 5	Clarendon	1 96-hour event	52534	12/5/16	12/15/16
14149	Beason's Curb Market	Orangeburg	2 96-hour events	52484	2/6/17	4/6/17
14404	Carroll's Service Station	Georgetown	1 96-hour event	52821	2/6/17	2/16/17
15062	Gateway Homes	Horry	1 96-hour event	52602	1/18/17	1/28/17
15120	Davis Site	Clarendon	1 96-hour event	52535	1/16/17	1/26/17
16093	Fry Enterprises	Jasper	1 96-hour event	52285	12/12/16	12/22/16
16428	Dr Tire	Beaufort	1 96-hour event	52937	2/23/17	3/5/17
18447	Former Gulf	Orangeburg	3 48-hour events	52355	12/19/16	12/29/16
19328	Phillip's Rental Property	Orangeburg	1 96-hour event	52354	12/19/16	12/29/16
19411	Former Price Service	Florence	1 48-hour event	52192	1/16/17	1/26/17
19683	Adams Service Station	Orangeburg	1 96-hour event	52799	2/13/17	2/23/17

AFVR at each facility will be performed in accordance with the referenced contract on behalf of the UST Owner/Operator (O/O). Payment for approved costs will be made from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. The O/O has no obligation to pay for the specified work scope. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the South Carolina Department of Health and Environmental Control (Agency) is obtained.

Any changes to the work scope must be pre-approved by UST Management Division in order for Emerald to seek payment. Please contact the UST Project Manager for technical and/or financial approval. Any item that is not clearly or completely addressed in the report will not be compensated by SUPERB.

The Division grants pre-approval for transportation of free-phase product (FPP) and/or petroleum-contaminated groundwater from the referenced UST facility to a permitted treatment facility. The FPP and/or contaminated groundwater must be accepted by the approved 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 report.

If you have any questions concerning this correspondence or need further assistance, please contact me by phone at (803) 898-0655, by fax at (803) 898-0673, or by e-mail at padgetjp@dhec.sc.gov.

# Emerald, Inc.

CONSULTING AND ENGINEERING  
SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE:  
www.emeraldinc-us.com

TELEPHONE (803) 469-5454  
FAX (803) 469-5465

June 20, 2017

John Bryant, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Underground Storage Tank Management  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, SC 29201



Aggressive Fluid Vapor Recovery Report  
Burnettes Service Station  
Ridgeland, South Carolina  
Jasper County  
UST Permit # 05289; CA # 52874  
Emerald Job # 16-081

Mr. Bryant,

Please find the attached Aggressive Fluid Vapor Recovery (AFVR) Report for the Burnette's Service Station site. A site reconnaissance was conducted on October 27, 2016 to locate each monitoring well, gauge extraction wells, and assess site conditions. Prior to conducting this AFVR event information gathered during the site reconnaissance was presented to the SCDHEC project manager for review.

## **AGGRESSIVE FLUID VAPOR RECOVERY EVENT**

On June 12 through 16, 2017, Emerald, Inc. personnel performed a 96-hour AFVR event utilizing MW-6 as the extraction location. This 96-hour AFVR event was conducted to aid in the reduction of free phase petroleum product and dissolved chemicals of concern previously detected at the subject site. Prior to the event, free phase petroleum product was detected in

MW-6 at a thickness of 0.77 feet. Free product was not detected at the conclusion of the event. Monitoring well locations are presented on the attached site map provided by SCDHEC.

Table 1 presents the off-gas concentrations (using a Photoionization Detector), post treatment off-gas concentrations, off-gas velocity, and knockout tank vacuum. Table 2 presents the stinger depths, wellhead vacuum measurements, water levels measurements and magnehelic readings obtained during the event. Emerald, Inc. field personnel normally record data at thirty minute intervals for the first eight hours of the event, then at one hour intervals from hours nine through twenty-four and at two hour intervals from hour twenty-four until the conclusion of the event. During the hours of midnight to 8 AM event monitoring was suspended. Due to the site being vacant, off-gas treatment was not utilized.

According to the calculations as presented on Table 1, a total of 98.85 pounds of hydrocarbons (as vapor) and 15.81 equivalent gallons of hydrocarbons were removed during this event. Free phase product was not detected in the knockout tank. According to the meter, a total of 4,867 gallons of petroleum contaminated groundwater was transported to the City of Manning Wastewater Treatment Facility in Manning, SC for proper disposal. Copies of the disposal manifests for this event are included as attachments.

If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,  
Emerald, Inc.

Handwritten signature of William C. McClary in black ink, including the initials 'PB' at the end.

William C. McClary, P.G.  
Project Manager

Handwritten signature of Ronny L. Lowder in black ink, featuring a long horizontal flourish.

Ronny L. Lowder  
President

Attachments

**TABLE 1  
AFVR MONITORING DATA  
BURNETTES SERVICE STATION  
RIDGELAND, SOUTH CAROLINA  
SCDHEC SITE ID # 05289  
EMERALD JOB # 16-081**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Knockout Tank Vacuum (In. Hg)	Off-Gas Concentration (PPM)	Post-Treatment Concentration (PPM)	Offgas Velocity (ft/min)	Flow Rate (CFM)	CG:M (mg/dsm <sup>3</sup> )	Cg (Lb/Dscf)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-6	6/12/17	9:00	Start	21	4,203	N/A	2,097	102.93	22,350	1.40E-03	8.62	-
		9:30	0.5	21	3,167	N/A	2,063	101.26	16,841	1.05E-03	6.39	3.75
		10:00 ↓	0.5	21	3,649	N/A	1,978	97.09	19,404	1.21E-03	7.06	3.36
		10:30	0.5	21	941	N/A	2,067	101.46	5,004	3.12E-04	1.90	2.24
		11:00 ↓	0.5	21	661	N/A	2,190	107.50	3,515	2.19E-04	1.42	0.83
		11:30	0.5	21	393	N/A	2,259	110.88	2,090	1.30E-04	0.87	0.57
		12:00 ↓	0.5	21	741	N/A	2,176	106.81	3,940	2.46E-04	1.58	0.61
		12:30	0.5	21	328	N/A	2,292	112.50	1,744	1.09E-04	0.74	0.58
		13:00 ↓	0.5	21	456	N/A	2,134	104.75	2,425	1.51E-04	0.95	0.42
		13:30	0.5	21	304	N/A	2,229	109.41	1,617	1.01E-04	0.66	0.40
		14:00 ↓	0.5	21	244	N/A	2,182	107.10	1,298	8.10E-05	0.52	0.30
		14:30	0.5	21	341	N/A	2,139	104.99	1,813	1.13E-04	0.71	0.31
		15:00 ↓	0.5	21	298	N/A	2,277	111.77	1,585	9.89E-05	0.66	0.34
		15:30	0.5	21	401	N/A	2,316	113.68	2,132	1.33E-04	0.91	0.39
		16:00 ↓	0.5	21	392	N/A	2,337	114.71	2,085	1.30E-04	0.90	0.45
		16:30	0.5	21	280	N/A	2,253	110.59	1,489	9.30E-05	0.62	0.38
		17:00 ↓	0.5	21	345	N/A	2,302	112.99	1,835	1.15E-04	0.78	0.35
		18:00	1.0	21	427	N/A	2,172	106.61	2,271	1.42E-04	0.91	0.84
		19:00 ↓	1.0	21	415	N/A	2,159	105.97	2,207	1.38E-04	0.88	0.89
		20:00	1.0	21	378	N/A	1,707	83.79	2,010	1.25E-04	0.63	0.75
		21:00	1.0	21	332	N/A	1,959	96.16	1,765	1.10E-04	0.64	0.63
		22:00	1.0	21	389	N/A	2,105	103.32	2,069	1.29E-04	0.80	0.72
		23:00	1.0	21	642	N/A	2,215	108.72	3,414	2.13E-04	1.39	1.10
		24:00	1.0	21	961	N/A	2,263	111.08	5,110	3.19E-04	2.13	1.76
	6/13/17	8:00	8.0	21	411	N/A	2,071	101.66	2,186	1.36E-04	0.83	11.83
		9:00	1.0	21	452	N/A	2,164	106.22	2,404	1.50E-04	0.96	0.89
		10:00	1.0	21	370	N/A	2,296	112.70	1,968	1.23E-04	0.83	0.89
		12:00 ↑	2.0	21	281	N/A	2,291	112.45	1,494	9.33E-05	0.63	1.46
		14:00 ↓	2.0	21	203	N/A	2,159	105.97	1,079	6.74E-05	0.43	1.06
		16:00 ↓	2.0	21	416	N/A	2,246	110.24	2,212	1.38E-04	0.91	1.34
		18:00 ↓	2.0	21	477	N/A	2,173	106.66	2,537	1.58E-04	1.01	1.93

**TABLE 1 Cont'd.  
AFVR MONITORING DATA  
BURNETTES SERVICE STATION  
RIDGELAND, SOUTH CAROLINA  
SCDHEC SITE ID # 05289  
EMERALD JOB # 16-081**

Extraction Wells	Date	Time (hh:mm)	Differential Time (hr)	Knockout Tank Vacuum (in. Hg)	Off-Gas Concentration (PPM)	Post-Treatment Concentration (PPM)	Offgas Velocity (ft/min)	Flow Rate (CFM)	CG:M (mg/dsm <sup>3</sup> )	Cg (Lb/Dscf)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)	
MW-6	6/13/17	20:00	↓	2.0	21	355	N/A	2,582	126.74	1,888	1.18E-04	0.90	2.82
		22:00	↓	2.0	21	457	N/A	2,463	120.90	2,430	1.52E-04	1.10	2.00
		24:00		2.0	21	403	N/A	2,422	118.88	2,143	1.34E-04	0.95	2.05
	6/14/17	8:00		8.0	21	443	N/A	2,210	108.48	2,356	1.47E-04	0.96	7.65
		10:00	↓	2.0	21	361	N/A	2,193	107.64	1,920	1.20E-04	0.77	1.73
		12:00		2.0	21	423	N/A	2,254	110.64	2,249	1.40E-04	0.93	1.71
		14:00	↓	2.0	21	328	N/A	2,081	102.15	1,744	1.09E-04	0.67	1.60
		16:00		2.0	21	389	N/A	2,123	104.21	2,069	1.29E-04	0.81	1.47
		18:00		2.0	21	428	N/A	2,047	100.48	2,276	1.42E-04	0.86	1.66
		20:00	↑	2.0	21	484	N/A	2,370	116.33	2,574	1.61E-04	1.12	1.98
		22:00		2.0	21	379	N/A	2,416	118.59	2,015	1.26E-04	0.90	2.02
		24:00		2.0	21	352	N/A	2,386	117.12	1,872	1.17E-04	0.82	1.72
	6/15/17	8:00		8.0	21	548	N/A	2,080	102.10	2,914	1.82E-04	1.11	7.74
		10:00	↓	2.0	21	377	N/A	2,172	106.61	2,005	1.25E-04	0.80	1.92
		12:00		2.0	21	298	N/A	2,124	104.26	1,585	9.89E-05	0.62	1.42
		14:00	↓	2.0	21	240	N/A	2,239	109.90	1,276	7.97E-05	0.53	1.14
		16:00		2.0	21	416	N/A	2,119	104.01	2,212	1.38E-04	0.86	1.39
		18:00	↑	2.0	21	469	N/A	2,224	109.17	2,494	1.56E-04	1.02	1.88
		20:00		2.0	21	412	N/A	1,837	90.17	2,191	1.37E-04	0.74	1.76
		22:00		2.0	21	451	N/A	2,052	100.72	2,398	1.50E-04	0.90	1.64
		24:00		2.0	21	444	N/A	2,181	107.05	2,361	1.47E-04	0.95	1.85
	6/16/17	8:00		8.0	21	409	N/A	2,249	110.39	2,175	1.36E-04	0.90	7.38
		9:00		1.0	21	426	N/A	2,261	110.98	2,265	1.41E-04	0.94	0.92
	<b>Well Gauging Data</b>			<b>Before AFVR Event</b>			<b>After AFVR Event</b>			<b>Equations</b>			
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Cg:m = PPMg*(Mg/K3) Removal Rate = Cg * Flow Rate * 60Min/Hr Interval Removal = (T <sub>1</sub> + T <sub>2</sub> )/2 PPM = Part per Million (by PID) Cg:m = mg/dsm <sup>3</sup> (mass concentration of gasoline emission) Mg = 128 mg/mg-mole, molecular weight of gasoline K3 = 24.07 dsm <sup>3</sup> /1E6 mg-mole, mass to volume conversion Cg = lb/dscf, mass concentration of gasoline by emission Removal Rate = lb/hr, pollutant mass removal rate of emission				
MW-6	2	3.29-13.29	2.04	2.81	0.77	—	6.75	—					
<b>Product Thickness</b>				<b>Recovery / Disposal Information</b>									
Product observed in Sight Tube? No				Hydrocarbons Removed (vapor): 98.85 Pounds				Hydrocarbons Removed (liquid): 0.00 Gallons					
Product detected in Tanker? No				Total Hydrocarbons Removed: 15.81 Equivalent Gallons				Molecular Weight Utilized: 128 mg/mg-mole					
<b>Weather Conditions</b>				Emerald, Inc. Personnel				Disposal Facility: City of Manning Wastewater Treatment Facility					
6/12/17	Mostly Cloudy, 68-87°F			M. Slaybaugh				Total Liquids Removed: 4,867 Gallons					
6/13/17	Overcast, 71-89°F												
6/14/17	Scattered Clouds, 72-90°F												
6/15/17	Partly Cloudy, 73-91°F												
6/16/17	Scattered Clouds, 73-88°F												
<b>Notes</b>													
↑ = Stinger raised    ↓ = Stinger lowered													

**TABLE 2  
EVENT MONITORING DATA  
BURNETTES SERVICE STATION  
RIDGELAND, SOUTH CAROLINA  
SCDHEC SITE ID # 05289  
EMERALD JOB # 16-081**

Date	Time (hh:mm)	Extraction Wells		Event Monitoring			
		MW-6		MW-3		MW-4	
		Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Magnehelic Reading (Inches of water)	Depth to Water (ft.)	Magnehelic Reading (Inches of water)	Depth to Water (ft.)
6/12/17	9:00	3.0	19	Pre	2.18	Pre	2.38
	9:30	3.0	19	—	—	—	—
	10:00	4.0	19	—	—	—	—
	10:30	4.0	19	—	—	—	—
	11:00	5.0	19	<0.1	2.19	<0.1	2.39
	11:30	5.0	19	—	—	—	—
	12:00	6.0	19	—	—	—	—
	12:30	6.0	19	—	—	—	—
	13:00	7.0	19	<0.1	2.19	<0.1	2.39
	13:30	7.0	19	—	—	—	—
	14:00	8.0	19	—	—	—	—
	14:30	8.0	19	—	—	—	—
	15:00	9.0	19	<0.1	NR	<0.1	2.38
	15:30	9.0	19	—	—	—	—
	16:00	10.0	19	—	—	—	—
	16:30	10.0	19	—	—	—	—
	17:00	11.0	19	<0.1	NR	<0.1	2.40
	18:00	11.0	19	—	—	—	—
	19:00	12.0	19	—	—	—	—
	20:00	12.0	19	<0.1	2.89	<0.1	2.40
	21:00	12.0	19	—	—	—	—
	22:00	12.0	19	—	—	—	—
	23:00	12.0	19	<0.1	3.11	<0.1	2.42
	24:00	12.0	19	—	—	—	—
6/13/17	8:00	12.0	19	<0.1	3.64	<0.1	2.35
	9:00	12.0	19	—	—	—	—
	10:00	12.0	19	<0.1	3.66	<0.1	2.41
	12:00	5.0	19	<0.1	3.72	<0.1	2.48
	14:00	6.0	19	<0.1	3.79	<0.1	2.57
	16:00	7.0	19	<0.1	3.86	<0.1	2.69
	18:00	8.0	19	<0.1	3.77	<0.1	2.77
	20:00	9.0	19	<0.1	4.06	<0.1	2.85
	22:00	10.0	19	<0.1	4.14	<0.1	2.98

Notes: NR = Not Recorded by field personnel

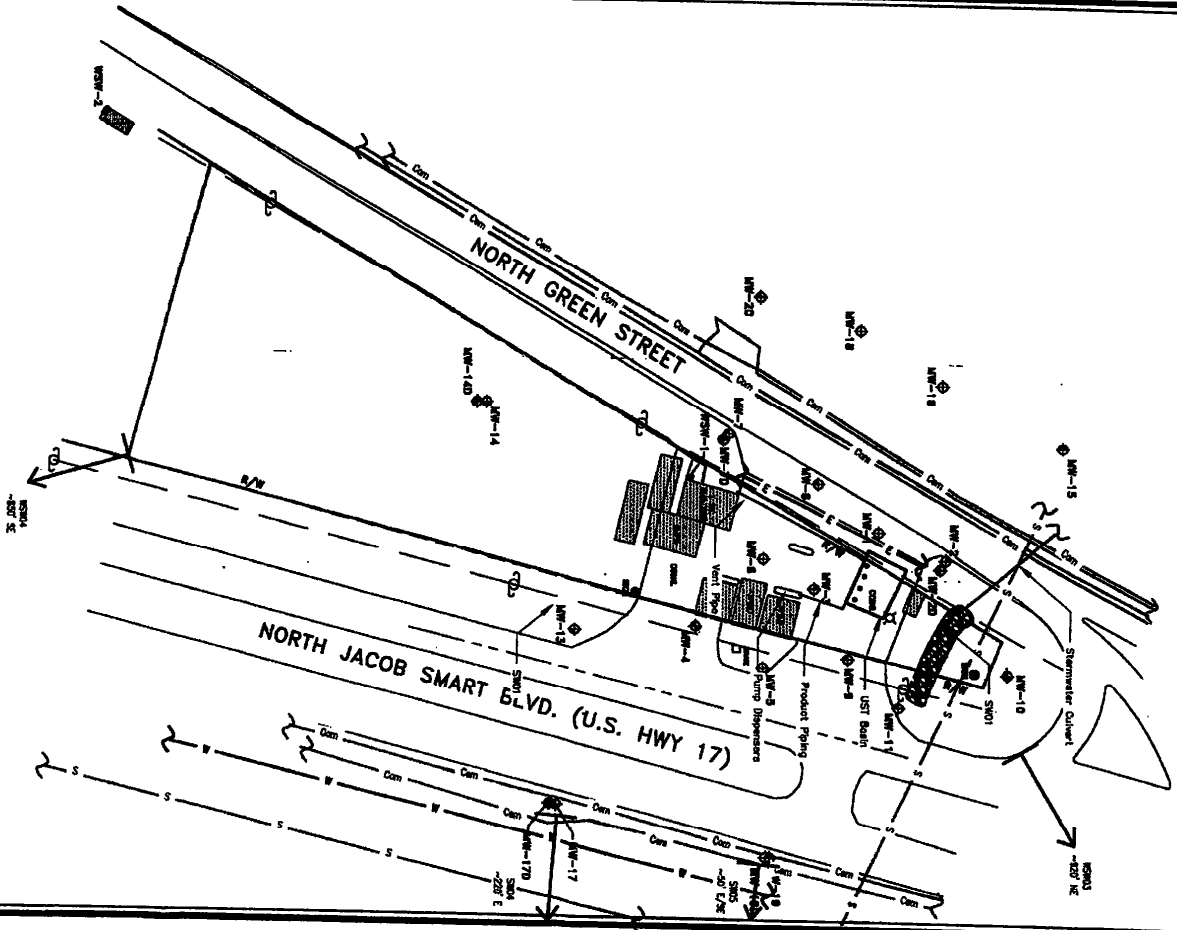
**TABLE 2 Cont'd.**  
**EVENT MONITORING DATA**  
**BURNETTES SERVICE STATION**  
**RIDGELAND, SOUTH CAROLINA**  
**SCDHEC SITE ID # 05289**  
**EMERALD JOB # 16-081**

Date	Time (hh:mm)	Extraction Wells		Event Monitoring			
		MW-6		MW-3		MW-4	
		Stinger Depth (ft.)	Wellhead Vacuum (In. Hg)	Magnehelic Reading (Inches of water)	Depth to Water (ft.)	Magnehelic Reading (Inches of water)	Depth to Water (ft.)
6/13/17	24:00	10.0	19	<0.1	4.23	<0.1	3.06
6/14/17	8:00	10.0	19	<0.1	4.56	<0.1	2.93
	10:00	11.0	19	<0.1	4.53	<0.1	2.93
	12:00	11.0	19	<0.1	4.52	<0.1	2.92
	14:00	12.0	19	<0.1	4.47	<0.1	2.92
	16:00	12.0	19	<0.1	4.40	<0.1	2.93
	18:00	12.0	19	<0.1	4.40	<0.1	2.92
	20:00	8.0	19	<0.1	4.43	<0.1	2.95
	22:00	8.0	19	<0.1	4.50	<0.1	3.03
	24:00	8.0	19	<0.1	4.51	<0.1	3.05
6/15/17	8:00	8.0	19	<0.1	4.63	<0.1	3.05
	10:00	9.0	19	<0.1	4.76	<0.1	3.03
	12:00	9.0	19	<0.1	4.85	<0.1	3.01
	14:00	10.0	19	<0.1	4.81	<0.1	3.02
	16:00	10.0	19	<0.1	4.79	<0.1	3.02
	18:00	7.0	19	<0.1	4.77	<0.1	3.01
	20:00	7.0	19	<0.1	4.75	<0.1	2.98
	22:00	7.0	19	<0.1	4.71	<0.1	2.96
	24:00	7.0	19	<0.1	4.68	<0.1	2.94
6/16/17	8:00	7.0	19	<0.1	4.77	<0.1	3.01
	9:00	7.0	19	<0.1	4.74	<0.1	3.03

Notes:

REFERENCE: Site Survey by Southern Lead Services dated 14 February 2015

- 1 - Contour Interval
- 2 - Contour Interval
- 3 - Contour Interval
- 4 - Contour Interval
- 5 - Contour Interval



Drawn	15/02/2015	15/02/2015
Project	15071 - North Jacob Smart Blvd	15071 - North Jacob Smart Blvd
Date	02/07/2015	02/07/2015
Scale	AS SHOWN	AS SHOWN
Sheet No.	15-001	15-001
Project No.	15071	15071
Client	15071 - North Jacob Smart Blvd	15071 - North Jacob Smart Blvd
Author	15071 - North Jacob Smart Blvd	15071 - North Jacob Smart Blvd
Checker	15071 - North Jacob Smart Blvd	15071 - North Jacob Smart Blvd
Approver	15071 - North Jacob Smart Blvd	15071 - North Jacob Smart Blvd
Project Manager	15071 - North Jacob Smart Blvd	15071 - North Jacob Smart Blvd
Client Representative	15071 - North Jacob Smart Blvd	15071 - North Jacob Smart Blvd
Project No.	15071	15071
Sheet No.	15-001	15-001
Scale	AS SHOWN	AS SHOWN
Date	02/07/2015	02/07/2015
Drawn	15/02/2015	15/02/2015

**patrasch**  
 15071 - North Jacob Smart Blvd  
 15-001



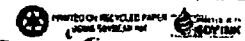
# NON-HAZARDOUS WASTE MANIFEST

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

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No. 1032-1		2. Page 1 of	
3. Generator's Name and Mailing Address Burnette's Service Station 11577 North Jacob Smart Blvd Ridgeland S.C. U.S.T. #05289							
4. Generator's Phone				6. US EPA ID Number		A. State Transporter's ID	
5. Transporter 1 Company Name Emerald, Inc.						B. Transporter 1 Phone 803-469-5454	
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 City of Manning Wastewater Treatment Facility PO Box 546 Manning, SC 29102				10. US EPA ID Number		E. State Facility's ID	
						F. Facility's Phone	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	14. Jnd WL/vol.
a. Non-Hazardous Petroleum Contaminated Groundwater						4867	GAL
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name MAX S. SLAYBAUGH				Signature 		Date Month Day Year 6 16 17	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name Lee Stogner		Signature 	
						Date Month Day Year 6 16 17	
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 James Bethes				Signature 		Date Month Day Year 6 17 17	

NON-HAZARDOUS WASTE GENERATOR TRANSPORTER FACILITY

Manhole Access from Georgias





05289

OCT 17 2017

**BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**



**Re: Site Specific Work Plan Requests**  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906; PO #4600582306

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP), Revision 3.1 it is requested that you submit a Site Specific Work Plan (SSWP) for each site attached:

UST Permit #	Site Name	Project Manager
14472	Southside Grocery	Thomas Gladden
00039	Hutchinson's 76	Nicholas Gathings
05289 ✓	Burnette's Service Station	Nicholas Gathings
00332	Interstate Truck Terminal	Cody Heinze
12371	Black's Car Care	Nicholas Gathings
10441	Jim Bo's	Stephanie Briney
09315	General Store	Steven Martin
05565	Westgate Amoco	Kim Kuhn
05313	A&G Grocery	Nicholas Gathings

The SSWPs must be submitted **within 15 business days** to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved.

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 898-0607 or thrasham@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Ashleigh Thrash". The signature is written in a cursive, slightly slanted style.

Ashleigh Thrash, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Site Information Packages

cc: Technical Files



S.C. Department of Health and Environmental Control

UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

**MEMORANDUM**

TO: Midlands Environmental Consultants, Inc

FROM: Nicholas Gathings

RE: Site Specific Work Plan Request

Facility Name: Burnette's Service Station

Permit Number: 05289

County: Jasper

Work To Be Completed: Sample all monitoring well, Water Supply Wells, And surface water sources associated with the release for BTEXNM, 1,2 DCA, 8 Oxygenates, and EDB. Wells should be purged prior to sampling.

Total Number of Monitoring Well Samples: 29

Analysis Being Requested: 8260B, 8011 BTEXNM+ Oxys

Total Number of Water Supply Well Samples: 4

Analysis Being Requested: 8260B, 524.2, 504.1 BTEXNM+ Oxys

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<u>Bus.</u>	11577 N JACOB SMART BLVD	<u>Phone</u>		<u>District</u>	Beaufort EQC Office
<u>Address</u>	RIDGELAND SC 29936	<u>County</u>	Jasper		
<u>Category</u>	Retail Sales	<u>Last Inspection</u>	09/13/96	<u>Trans. of Ownership</u>	
<u>Tank Owner</u>	BURNETTE, FATE				
<u>Bus.</u>	PO BOX 1908			<u>Financial Responsibility</u>	
<u>Address</u>	RIDGELAND SC 29936-0443	<u>Phone</u>	803-726-5098	<u>Financial Mechanism</u>	<u>Expiration Date</u>
<u>Operator</u>				<u>Training Date</u>	
<u>Bus.</u>					
<u>Address</u>		<u>Phone</u>			
<u>Land Owner</u>					
<u>Bus.</u>					
<u>Address</u>		<u>Phone</u>			
<u>Tanks</u>	4	<u>Billable</u>	0	<u>Aband.</u>	4
				<u>Other</u>	0
		<u>Compliance Operator(s)</u>		<u>ID</u>	

Significant? N Memo Date: 02/24/01

Site Memo: 1-18-94 PER REMITTANCE ON INVOICE SAYS TO MAIL ALL INFO TO LITTLE T'S GARAGE, P.O. BOX 834, RIDGELAND, SC 29936. PHONE 726-5207. I TRIED TO CALL TWICE LEFT MESSAGE TWICE WILL NOT RETURN CALL. DMO

1-18-94 TC FROM MR. TOREZ OF LITTLE T'S HE PLANS TO PURCHASE PROPERTY. BUT HAS NOT YET. TOLD HIM TO DO A T OF O WHEN HE PURCHASES. DMO

4-18-96 Mr. Torres has purchased the property. But, he has not used the tanks. The matter of the tanks seems to be caught up in the estate of Mr. Fate C. Burnette, Sr. I informed Mr. Torres of his responsibility to either upgrade or abandon the tanks. RBS

11/20/96 Spoke with A.G. Solomons, attorney that is handling the fight over who will be the executor of the estate. This site is in a court battle with 2 people fighting over estate executor status. I have extended the due date for removal of the TOU tanks. Mr. Solomons will contact us when a decision is made by the court. It may go through several appeals. BJW

9/17/98: W Well @ 559.35'

Significant? Y Memo Date: 06/21/02

Site Memo: FACILITY WITHIN 559.18 FT OF PLANTATION MOTEL WELL G27125

Significant? Y Memo Date: 07/10/14

Site Memo: SCDOT will survey to determine if tank basin is in the ROW since the intersection was improved.

<u>Rel. No.</u>	1	<u>Reported</u>	12/31/91	<u>Status</u>	Confirmed - Active	<u>Product</u>	Petroleum	<u>Compl Required</u>	N
<u>Active Tnks</u>	NFA	<u>Fin. Type</u>	With SUPERB Cos	<u>RBCA / Score</u>	2AB 699	<u>Compliance Met</u>			Y

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<u>Confirmed</u>	03/23/92	<u>Emer. Resp.</u>		<u>Superb Qualified</u>	N	<u>Compliance Met Dt</u>	
<u>CU Init.</u>	06/04/14	<u>Abate. Met</u>	11/24/97	<u>Superb Determ. Dt</u>		<u>Fin Res Mechanism</u>	
<u>CU Compl.</u>		<u>Transferred</u>		<u>Project Manager</u>	BRYANT JOHN C		
<u>CU &gt; MCL</u>		<u>Source</u>	UST	<u>Responsible Party</u>	BURNETTE SR FATE C		

<u>Ranking</u>	<u>SCRBCA:</u>	2AB - Watersupply wells < 1 yr dow ngrade				<u>FP Thick:</u>	Unknown	
<u>Rel. No.</u>	1							
<u>Analyticals</u>	<u>Contaminant</u>	<u>ug/L</u>	<u>RBSL</u>	<u>Score</u>	<u>SSTL's</u>	<u>Other Contaminants</u>	<u>ug/L</u>	<u>SSTL's</u>
	Benzene	3200	5	640		EDB	.059	
	Toluene	23600	1000	24		LEAD	58	
	Ethylbenzene	2400	700	3		MW-6 HAS 0.62FT		
	Xylene	13000	10000	1		OF FP		
	Naphthalene	735	25	29				
	MTBE	48.3	40	1				
	<u>Total Score:</u>			699				
<u>Receptor Ttype:</u>	PRIVATE	<u>Ground Water Flow:</u>	E					
<u>Distanced to Receptor:</u>	1	<u>Seepage Velocity:</u>	.42					
<u>GW Depth:</u>	0							

<u>Tank No.</u>	1	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>		<u>Chem.</u>	
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	2	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>		<u>Chem.</u>	
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	3	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>		<u>Chem.</u>	
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	4	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	3,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>		<u>Chem.</u>	
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	

**Site Activity Summary**

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** J. Bryant  
**Field Personnel:** J. Phillips, C. Hanson, C. Phillips, P. Wyle



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1	Y	5/13/16	13:05	2-12	***	2.66	***	SHEEN	8.00	Odor; SHEEN=visible petroleum sheen on purged water, field readings not taken; Duplicated as DUP-2
MW-2	Y	5/13/16	13:05	3.68-13.68	***	3.64	***	0.66	8.50	No Odor
MW-2D	Y	5/13/16	13:18	24.80-29.80	***	4.18	***	3.09	6.00	No Odor
MW-3	Y	5/13/16	13:00	3.12-13.12	***	2.43	***	SHEEN	9.00	Odor; SHEEN=visible petroleum sheen on purged water, field readings not taken
MW-4	Y	5/13/16	12:50	3.69-13.69	***	2.35	***	1.09	9.50	No Odor
MW-5	Y	5/13/16	13:15	3.66-13.66	***	1.89	***	0.82	10.00	No Odor
MW-6	N	5/13/16	PROD	3.29-13.29	3.04	3.66	0.62	PROD	PROD	PROD=Not sampled-Free Phase Petroleum Product, 0.62ft thickness
MW-7	Y	5/13/16	12:30	3.75-13.75	***	3.03	***	0.87	9.00	No Odor
MW-7D	Y	5/13/16	12:18	27.29-32.29	***	4.62	***	1.96	5.00	No Odor
MW-8	Y	5/13/16	12:45	3.45-13.45	***	2.31	***	SHEEN	9.60	Odor; SHEEN=visible petroleum sheen on purged water, field readings not taken; Duplicated as DUP-1
MW-9	Y	5/13/16	13:40	3.76-13.76	***	2.21	***	1.72	10.00	No Odor
MW-10	Y	5/13/16	11:30	3.42-13.42	***	1.27	***	0.88	10.00	No Odor
MW-11	Y	5/13/16	14:05	3.65-13.65	***	1.34	***	0.52	9.00	No Odor
MW-13	Y	5/13/16	12:20	3.62-13.62	***	1.28	***	1.31	9.00	No Odor
MW-14	Y	5/13/16	11:35	3.72-13.72	***	1.50	***	1.36	9.00	No Odor
									111.50	

**Site Activity Summary**

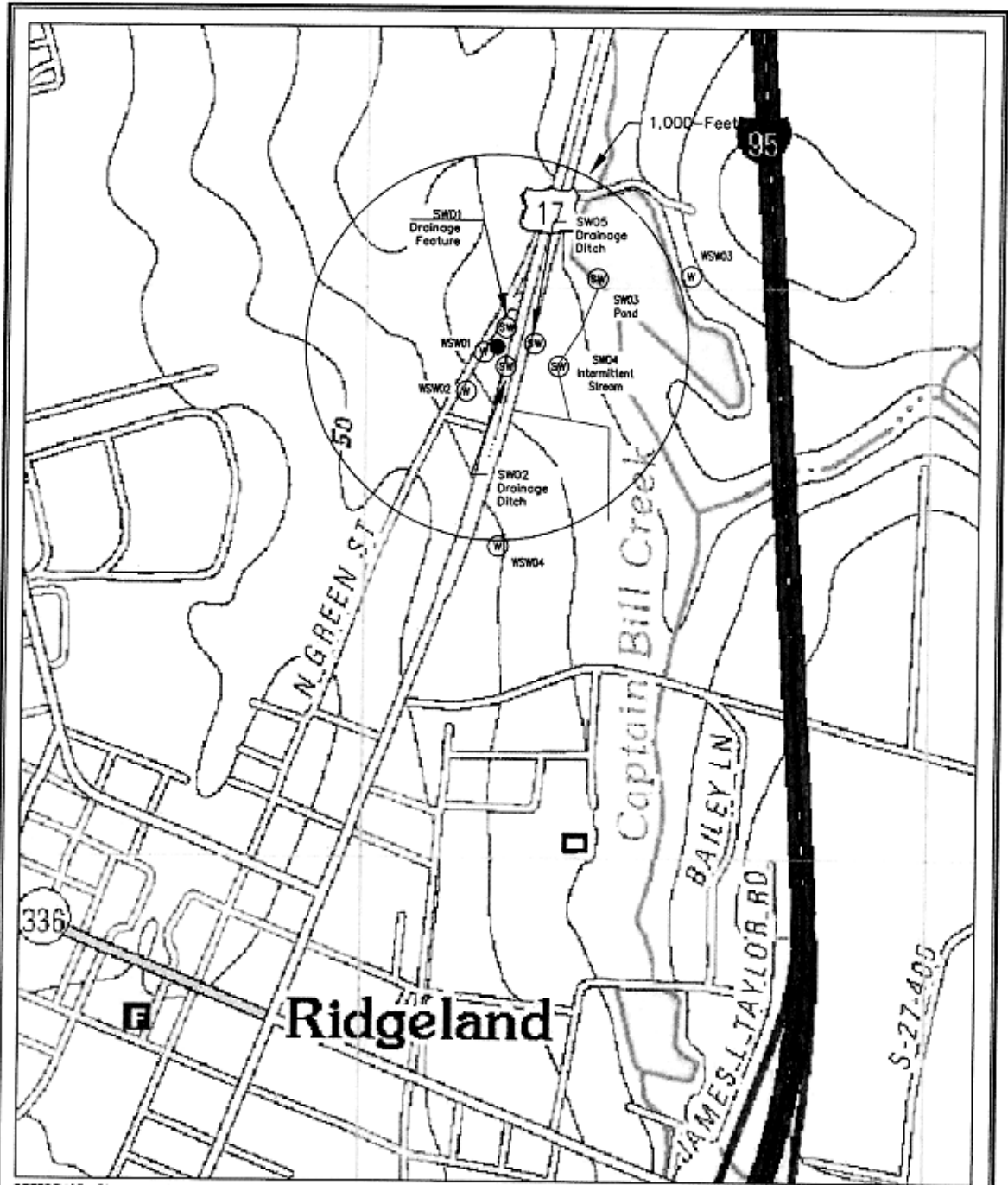
UST Permit #: 05289  
 Facility Name: Burnette's Station  
 County: J. Bryant  
 Field Personnel: J. Phillips, C. Hanson, C. Phillips, P. Wylie



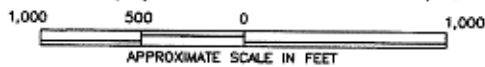
Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-14D	Y	5/13/16	11:48	18.57-23.57	***	2.38	***	0.91	5.00	No Odor; Dry @ 5.0 gallons
MW-15	Y	5/13/16	11:20	3.64-13.64	***	1.65	***	1.07	10.00	No Odor
MW-16	Y	5/13/16	11:00	1.85-11.85	***	1.81	***	2.14	8.50	No Odor; Stick-up height=3.30
MW-17	Y	5/13/16	12:00	3.71-13.71	***	2.51	***	0.66	9.50	No Odor
MW-17D	Y	5/13/16	11:37	25.31-30.31	***	3.88	***	1.25	5.50	No Odor; Dry @ 5.50 gallons
MW-18	Y	5/13/16	11:00	2.38-12.38	***	1.61	***	2.51	9.00	No Odor; Stick-up height=2.30
MW-19	Y	5/13/16	11:30	3.80-13.80	***	2.84	***	0.51	9.00	No Odor
MW-19D	Y	5/13/16	11:21	26.94-31.94	***	3.83	***	0.57	5.00	No Odor
MW-20	Y	5/13/16	11:00	3.17-13.17	***	1.89	***	1.74	9.50	No Odor
SW-1	Y	5/13/16	13:15	***	***	***	***	***	***	Collected from ditch near MW-2D
SW-2	Y	5/13/16	13:20	***	***	***	***	***	***	Collected from ditch near MW-13
SW-3	Y	5/13/16	13:30	***	***	***	***	***	***	Collected from pond
SW-4	Y	5/13/16	13:50	***	***	***	***	***	***	Collected from stream ~220ft east of site
SW5	Y	5/13/16	13:40	***	***	***	***	***	***	Collected from ditch ~ 50 east of site
WSW-1	Y	5/13/16	13:30	***	***	***	***	***	***	11577 N Jacob Smart Blvd (onsite), Collected from spigot near well
									71.00	







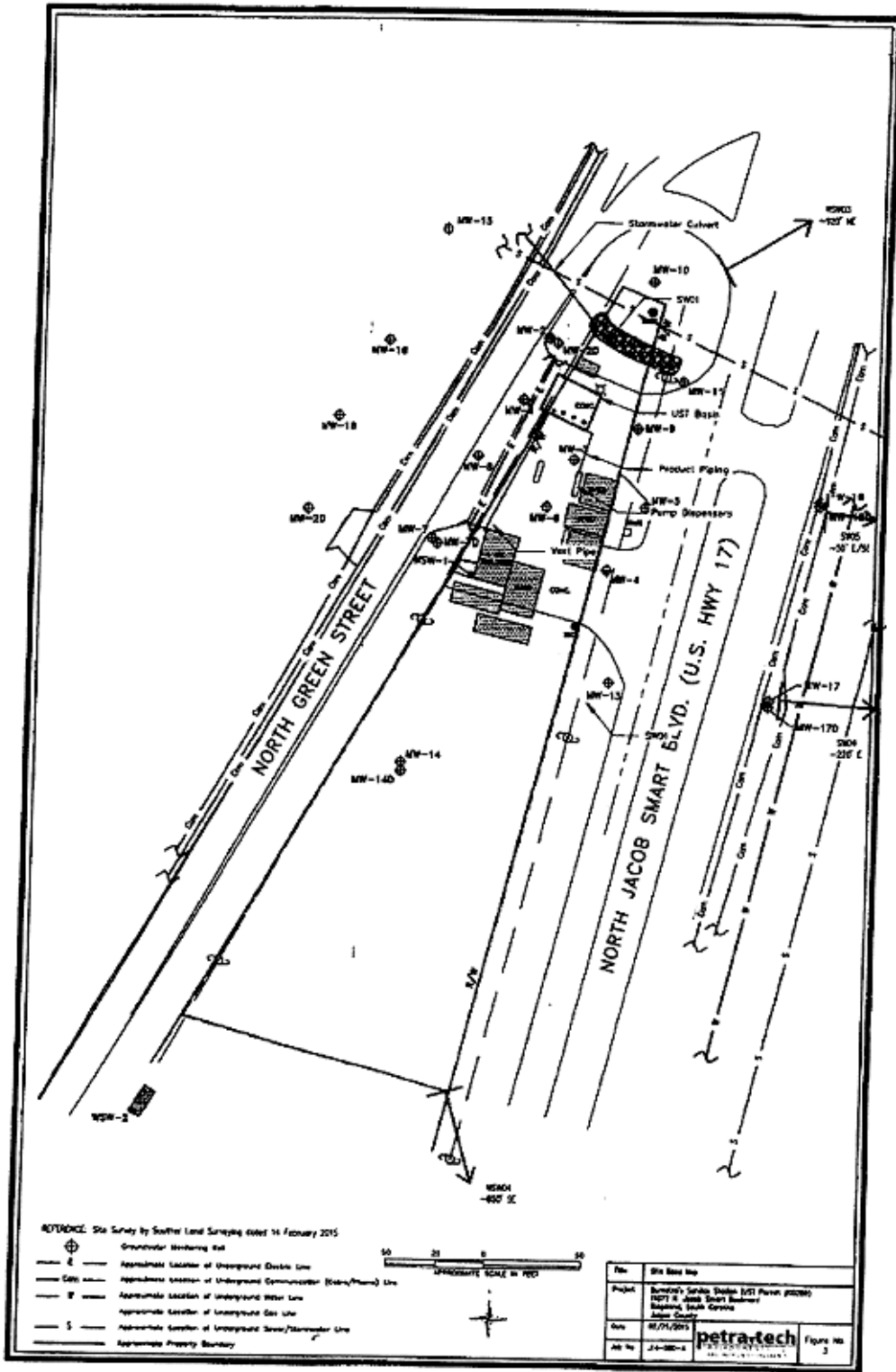
REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ W Private Water Supply Well



Title	Topographic Site Location Map	
Project	Burnette's Service Station (UST Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	
REV.	02/24/2013	
Job No.	J14-080-A	
Figure No.	1	





RIGHT OF ENTRY - Site ID # 05289

I, H.A. TORRES, JR, certify that I am the legal owner/authorized representative for H.A. TORRES, JR (owner) of the property at 721 H Hwy 17 Ridgeland. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

One well will be installed at the referenced facility for the purpose of collecting a ground-water quality sample for analysis. I understand that this well will be a permanent fixture of the property until assessment and/or cleanup activities are completed. I understand that these are necessary measures to determine the degree of risk the contamination reportedly existing at this property poses to the general public. Additionally, I understand that SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please Print) : H.A. TORRES, JR.  
SIGNATURE : [Signature]  
WITNESS : [Signature]  
DATE : May Month 16 Day 95 Year

Division  
5661 2 3  
1995

RIGHT OF ENTRY - Site ID # 05289

I, H.A. TORRES, JR, certify that I am the legal owner/authorized representative for H.A. TORRES, JR (owner) of the property at 721 N Hwy 17 Ridgeland. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

One well will be installed at the referenced facility for the purpose of collecting a ground-water quality sample for analysis. I understand that this well will be a permanent fixture of the property until assessment and/or cleanup activities are completed. I understand that these are necessary measures to determine the degree of risk the contamination reportedly existing at this property poses to the general public. Additionally, I understand that SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please Print) : H. A. TORRES, JR.

SIGNATURE : H.A. Torres, Jr.

WITNESS : C. A. Floyd

DATE : May Month 16 Day 95 Year

Division  
Groundwater Protection  
22 1995

**Midlands**  
 **Environmental**  
**Consultants, Inc.**

March 27, 2014

Ms. Minda Hornosky, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
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: Site-Specific Work Plan (Small Scope Contract)  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 14-4757  
Certified Site Rehabilitation Contractor UCC-0009


Dear Ms. Hornosky,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

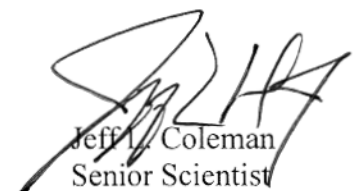
On March 24, 2014, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells/potential receptors, and identify potential problems for future assessment activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
for

Kyle V. Pudney  
Staff Biologist

  
Jeff L. Coleman  
Senior Scientist



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

To: Ms. Minda Hornosky (SCDHEC Project Manager)  
 From: Mr. Jeff Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Burnette's Service Station UST Permit #: 05289  
 Facility Address: 11577 N. Jacob Smart Highway, Ridgeland, SC 29936  
 Responsible Party: Fate C. Burnette, Sr. Phone: 803-726-5098  
 RP Address: P.O. Box 1908, Ridgeland, SC 29936  
 Property Owner (if different): H.A. Torres, Jr.  
 Property Owner Address: P.O. Box 834, Ridgeland, SC 29936  
 Current Use of Property: Little T's Garage

**Scope of Work** (Please check all that apply)

- |  |   |   |                              |
|--|---|---|------------------------------|
| <input checked="" type="checkbox"/> IGWA | <input type="checkbox"/> Tier II                      | <input type="checkbox"/> Groundwater Sampling | <input type="checkbox"/> GAC |
| <input type="checkbox"/> Tier I          | <input type="checkbox"/> Monitoring Well Installation | <input type="checkbox"/> Other _____          |                              |

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

- |   |  |                                      |   |
|---|--|--------------------------------------|---|
| <input checked="" type="checkbox"/> BTEXNMDCA (8260B) | <input checked="" type="checkbox"/> Lead | <input type="checkbox"/> BOD         | <input type="checkbox"/> Methane            |
| <input type="checkbox"/> Oxygenates (8260B)           | <input type="checkbox"/> 8 RCRA Metals   | <input type="checkbox"/> Nitrate     | <input checked="" type="checkbox"/> Ethanol |
| <input checked="" type="checkbox"/> EDB (8011)        | <input type="checkbox"/> TPH             | <input type="checkbox"/> Sulfate     | <input type="checkbox"/> Dissolved Iron     |
| <input checked="" type="checkbox"/> PAH (8270D)       | <input type="checkbox"/> pH              | <input type="checkbox"/> Other _____ |   |

Soil:

- |   |  |  |                                     |
|---|--|--|-------------------------------------|
| <input checked="" type="checkbox"/> BTEXN | <input type="checkbox"/> 8 RCRA Metals       | <input type="checkbox"/> TPH-DRO (3550B/8015B) | <input type="checkbox"/> Grain Size |
| <input checked="" type="checkbox"/> PAH   | <input type="checkbox"/> Oil & Grease (9071) | <input type="checkbox"/> TPH-GRO (5030B/8015B) | <input type="checkbox"/> TOC        |

Air:

- BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

<u>1</u> Soil	<u>1</u> Water Supply Wells	<u>        </u> Air	<u>2</u> Field Blank
<u>1</u> Monitoring Wells	<u>        </u> Surface Water	<u>2</u> Duplicate	<u>2</u> 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: 1 Estimated Footage: 12.0 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): Hand Bailing, Surging, Pumping (Dependant on formation)

Comments, if warranted:

Monitoring wells will be installed following the IGWA Protocol per SCDHEC UST Management Divisions, Quality Assurance Program Plan (Revision 2.0) specifications. Monitoring well location will be in the area of the former UST Basin.

UST Permit #: 05289 Facility Name: Burnette's Service Station

**Implementation Schedule** (Number of calendar days from approval)  
Field Work Start-Up: 4/15/2014 Field Work Completion: 5/15/2014  
Report Submittal: 6/15/2014 # 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: 0.5 Tons Purge Water: 20.0 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
-Monitoring well MW-1 (IGWA) will be sampled.  
-One water supply well will be sampled and any other water wells located within 250' of the site.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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





**ASSESSMENT COMPONENT INVOICE**  
**SOUTH CAROLINA**  
 Department of Health and Environmental Control  
 Underground Storage Tank Management Division  
 State Underground Petroleum Environmental Response Bank Account

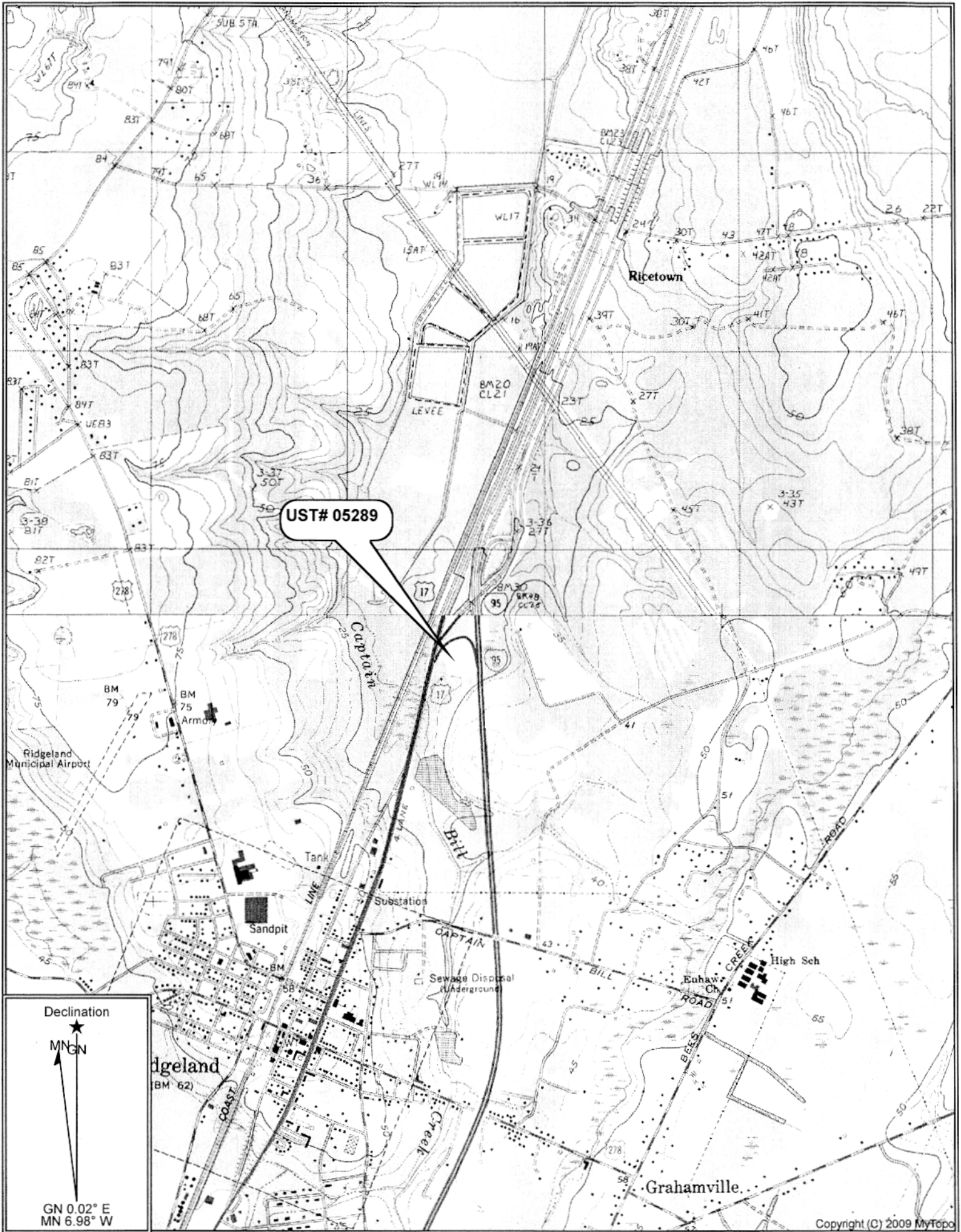
**Facility Name:** Burnette's Service Station

**UST Permit #:** 05289

**Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan Preparation</b>				
A1. Site-specific Work Plan		each	\$400.00	\$0.00
B1. Tax Map		each	\$70.00	\$0.00
<b>3. Survey (500 x 500 feet)</b>				
A1. Comprehensive Survey		each	\$1,000.00	\$0.00
<b>4. Mob/Demob (Each)</b>				
A1. Equipment		each	\$250.00	\$0.00
B1. Personnel		each	\$200.00	\$0.00
C1. Adverse Terrain Vehicle to install wells		each	\$0.00	\$0.00
<b>5. A1. Soil Borings (hand auger)*</b>		feet	\$0.00	\$0.00
<b>6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b>				
A1. Standard		per foot	\$6.00	\$0.00
<b>8. Abandonment (per foot)*</b>				
A1. 4" diameter or less		per foot	\$2.75	\$0.00
B1. Greater than 4" diameter		per foot	\$2.76	\$0.00
<b>9. Well Installation (per foot)*</b>				
A1. Water Table (hand augered)		per foot	\$0.00	\$0.00
B1. Water Table (drill rig)		per foot	\$18.87	\$0.00
C1. Telescoping/ Pit Cased		per foot	\$31.00	\$0.00
D1. Rock Drilling		per foot	\$23.00	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$7.00	\$0.00
H1. Recovery Well (4 inch diameter)		per foot	\$28.00	\$0.00
K. Re-develop Existing Well		per foot	\$4.00	\$0.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>				
A1. Groundwater Purge		per well	\$15.00	\$0.00
C1. Water Supply	1	per well/recep	\$5.00	\$5.00
D1. Groundwater No Purge or Duplicate		samples	\$15.00	\$0.00
E1. Gauge Well only		per well	\$5.00	\$0.00
F1. Sample Below Product		well	\$5.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00

<b>11. Laboratory Analyses-Groundwater</b>				
A2. BTEX+Naphth.+ Oxyg's+ 1,2 DCA + Ethanol	1	sample	\$50.00	\$50.00
AA1. Lead, Filtered		sample	\$12.00	\$0.00
D1. PAH's		sample	\$48.00	\$0.00
E1. Lead, Unfiltered		sample	\$12.00	\$0.00
F1. EDB by EPA 8011	1	sample	\$27.00	\$27.00
G1. 8 RCRA Metals		sample	\$50.00	\$0.00
H1. TPH (9070)		sample	\$0.00	\$0.00
PP. Ethanol		sample	\$0.00	\$0.00
<b>11. Analyses-Soil</b>				
E1. Lead		sample	\$12.00	\$0.00
Q1. BTEX + Naphth.		sample	\$32.00	\$0.00
R1. PAH's		sample	\$50.00	\$0.00
S1. 8 RCRA Metals		sample	\$50.00	\$0.00
U1. TPH-DRO (3550B/8015B)		sample	\$0.00	\$0.00
V1. TPH- GRO (5030B/8015B)		sample	\$0.00	\$0.00
W1. Grain size/hydrometer		sample	\$150.00	\$0.00
X1. Total Organic Carbon		sample	\$0.10	\$0.00
<b>11. Analyses-Air</b>				
Y1. BTEX + Naphthalene		sample	\$7.00	\$0.00
<b>12. Aquifer Characterization*</b>				
B1. Slug Test*		per test	\$100.00	\$0.00
<b>13. A1. Free Product Recovery Test</b>		each	\$35.00	\$0.00
<b>16. A1. Subsequent Survey*</b>		each	\$300.00	\$0.00
<b>17. Disposal (gallons or tons)*</b>				
AA. Wastewater		gallon	\$1.25	\$0.00
BB. Free Product		gallon	\$0.00	\$0.00
C1. Soil Treatment/Disposal		ton	\$50.04	\$0.00
D1. Drilling fluids		gallon	\$0.00	\$0.00
<b>18. Miscellaneous (attach receipts)</b>				
High Strength Well Pad Replacement		each	\$100.00	\$0.00
Free Product Hydrocarbon (Age and Type Identification)		each	\$7.00	\$0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
<b>20. Tier I Asse. (Use DHEC 3665 form)</b>		standard	\$5,100.00	\$0.00
<b>21. IGWA (Use DHEC 3666 form)</b>	1	standard	\$1,051.00	\$1,051.00
<b>25. Well Repair*</b>				
A1. Additional Copies of the Report		each	\$0.00	\$0.00
B1. Repair 2x2 MW pad		each	\$200.00	\$0.00
C1. Repair 4x4 MW pad		each	\$199.97	\$0.00
D1. Repair well vault		each	\$200.00	\$0.00
F1. Replace well cover bolts		each	\$0.00	\$0.00
G. Replace locking well cap & lock		each	\$0.00	\$0.00
H1. Replace/Repair stick-up		each	\$0.00	\$0.00
II. Convert Flush-mount to Stick-up		each	\$0.00	\$0.00
J1. Convert Stick-up to Flush-mount		each	\$0.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$0.00	\$0.00
<b>TOTAL</b>				<b>\$1,133.00</b>



UST# 05289

Declination

MN GN

↑

↑

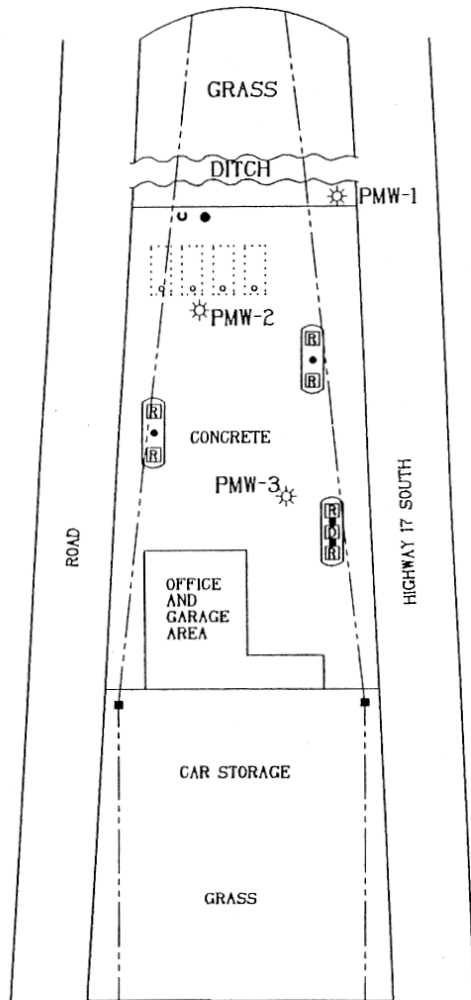
↑

↑

↑

↑

GN 0.02° E  
MN 6.98° W



MW's are not there,  
install IGWA well in  
tank basin area

LEGEND :

- LIGHT POLE
- PHONE BOOTH
- POWER POLE
- ELECTRICAL WIRE
- ☆ PROPOSED MONITORING WELL LOCATIONS

SITE PLAN	
LITTLE T's SERVICE RIDGELAND, SC.	
DATE : 06-21-93	DRAWN BY : RM
SCALE : 1" = 40'	FIGURE : 2
<b>SHIELD</b> ENVIRONMENTAL ASSOCIATES, INC.	

 **Midlands  
Environmental  
Consultants, Inc.**

October 30, 2017

Ms. Ashleigh Thrash, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
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: Site-Specific Work Plan  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 17-6202  
Certified Site Rehabilitation Contractor UCC-0009

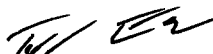
Dear Ms. Thrash,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On October 27, 2017, MECI personnel performed a site visit to the subject site 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.**

  
Todd D. Elder  
Staff Hydrogeologist

Jeff L. Coleman  
Senior Scientist



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

To: Mr. Nicholas Gathings (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Burnette's Service Station UST Permit #: 05289  
 Facility Address: 11577 Jacob Smart Boulevard, Ridgeland, SC 29936  
 Responsible Party: Fate C Burnette Phone: 803-726-5098  
 RP Address: Rt 1A PO Box 172, Hampton, SC 29924  
 Property Owner (if different): N/A  
 Property Owner Address: N/A  
 Current Use of Property: Auto Garage

**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:**

- |  |  |                                      |   |
|--|--|--------------------------------------|---|
| <input checked="" type="checkbox"/> BTEXNMDCA (8260B)  | <input type="checkbox"/> Lead          | <input type="checkbox"/> BOD         | <input type="checkbox"/> Methane        |
| <input checked="" type="checkbox"/> Oxygenates (8260B) | <input type="checkbox"/> 8 RCRA Metals | <input type="checkbox"/> Nitrate     | <input type="checkbox"/> Ethanol        |
| <input type="checkbox"/> EDB (8011)                    | <input type="checkbox"/> TPH           | <input type="checkbox"/> Sulfate     | <input type="checkbox"/> Dissolved Iron |
| <input type="checkbox"/> PAH (8270D)                   | <input type="checkbox"/> pH            | <input type="checkbox"/> Other _____ |   |

**Drinking Water Supply Wells:**

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

**Soil:**

- |                                 |  |  |  |                                     |
|---------------------------------|--|--|--|-------------------------------------|
| <input type="checkbox"/> BTEXNM | <input type="checkbox"/> Lead                | <input type="checkbox"/> RCRA Metals           | <input type="checkbox"/> TPH-DRO (3550B/8015B) | <input type="checkbox"/> Grain Size |
| <input type="checkbox"/> PAH    | <input type="checkbox"/> Oil & Grease (9071) | <input type="checkbox"/> TPH-GRO (5030B/8015B) | <input type="checkbox"/> TOC                   |                                     |

**Air:**

- BTEXN

**Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)**

_____ Soil	_____ 4 _____ Water Supply Wells	_____ Air	_____ 2 _____ Field Blank
_____ 24 _____ Monitoring Wells	_____ 5 _____ Surface Water	_____ 3 _____ Duplicate	_____ 2 _____ Trip Blank

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: \_\_\_\_\_ 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 #: 05289

Facility Name: Burnette's Service Station

**Implementation Schedule (Number of calendar days from approval)**

Field Work Start-Up: 10/27/2017

Field Work Completion: 11/27/2017

Report Submittal: 12/27/2017

# of Copies Provided to Property Owners: 0

**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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the initial site visit, MW-20 was not located due to dense brush in a swampy area and it was not accessible.

-All other monitoring wells were located.

-All monitoring wells will be purged prior to sample collection.

-Monitoring well samples will be analyzed for BTEXNM, 1,2-DCA, and 8-OXY.

-Water supply well WSW-2 was found to be inactive. The status of WSW-4 could not be confirmed, as the owner denied MECI personnel access to the well.

-Water supply well samples will be analyzed via methods 524.2 and 8260B.

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



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

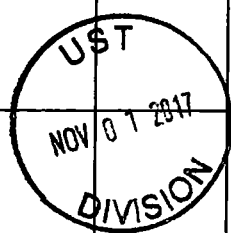
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600559329**

Facility Name: Burnette's Service Station

UST Permit #: 05289

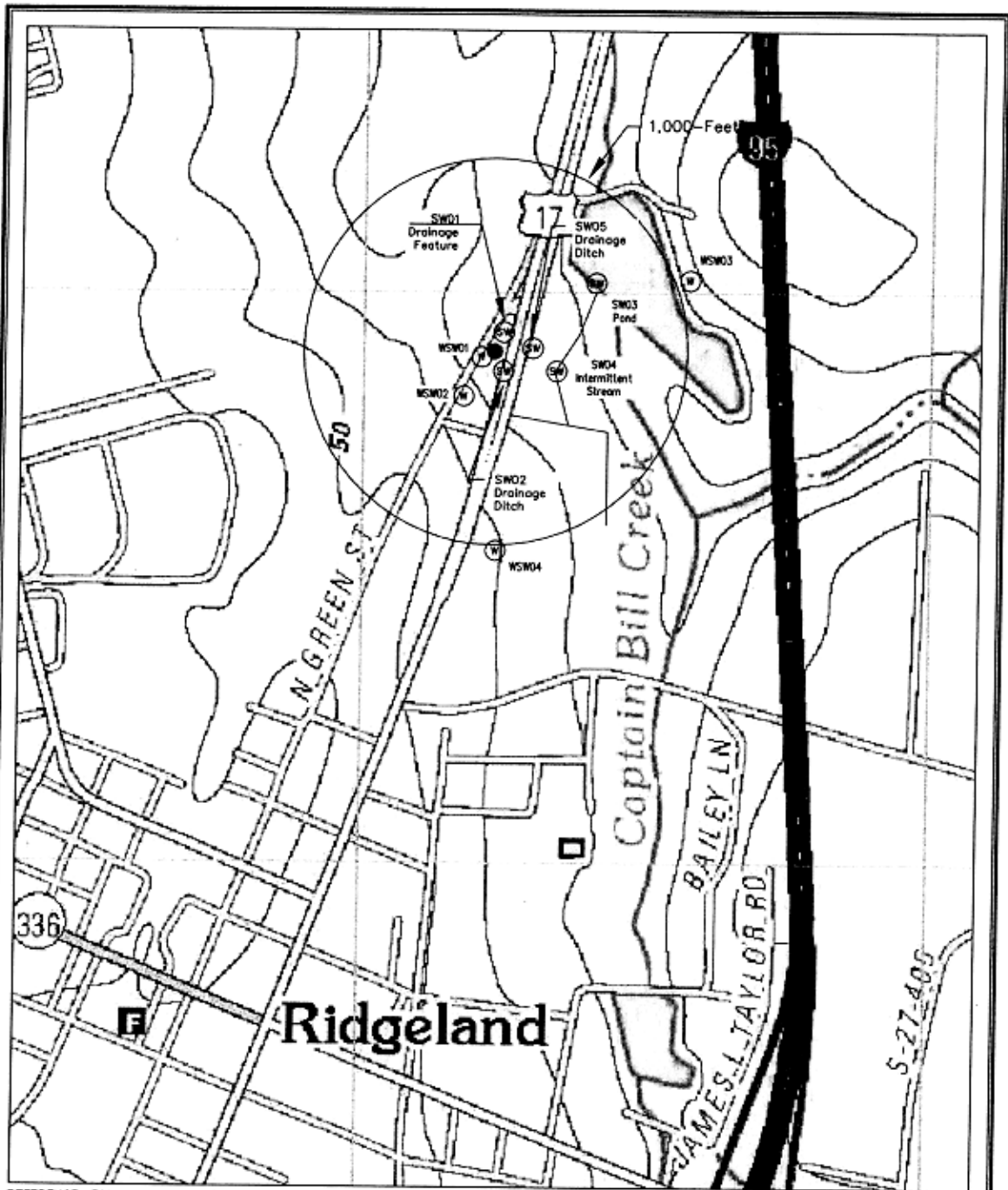
Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	24	per well	\$36.50	\$876.00
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	4	samples	\$18.00	\$72.00
D1. Groundwater No Purge or Duplicate	5	per well	\$27.50	\$137.50
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	2	each	\$1.00	\$2.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	300	gallons	\$1.00	\$300.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,390.50</b>

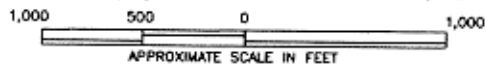


\*The appropriate mobilization cost can be added to complete these tasks, as necessary





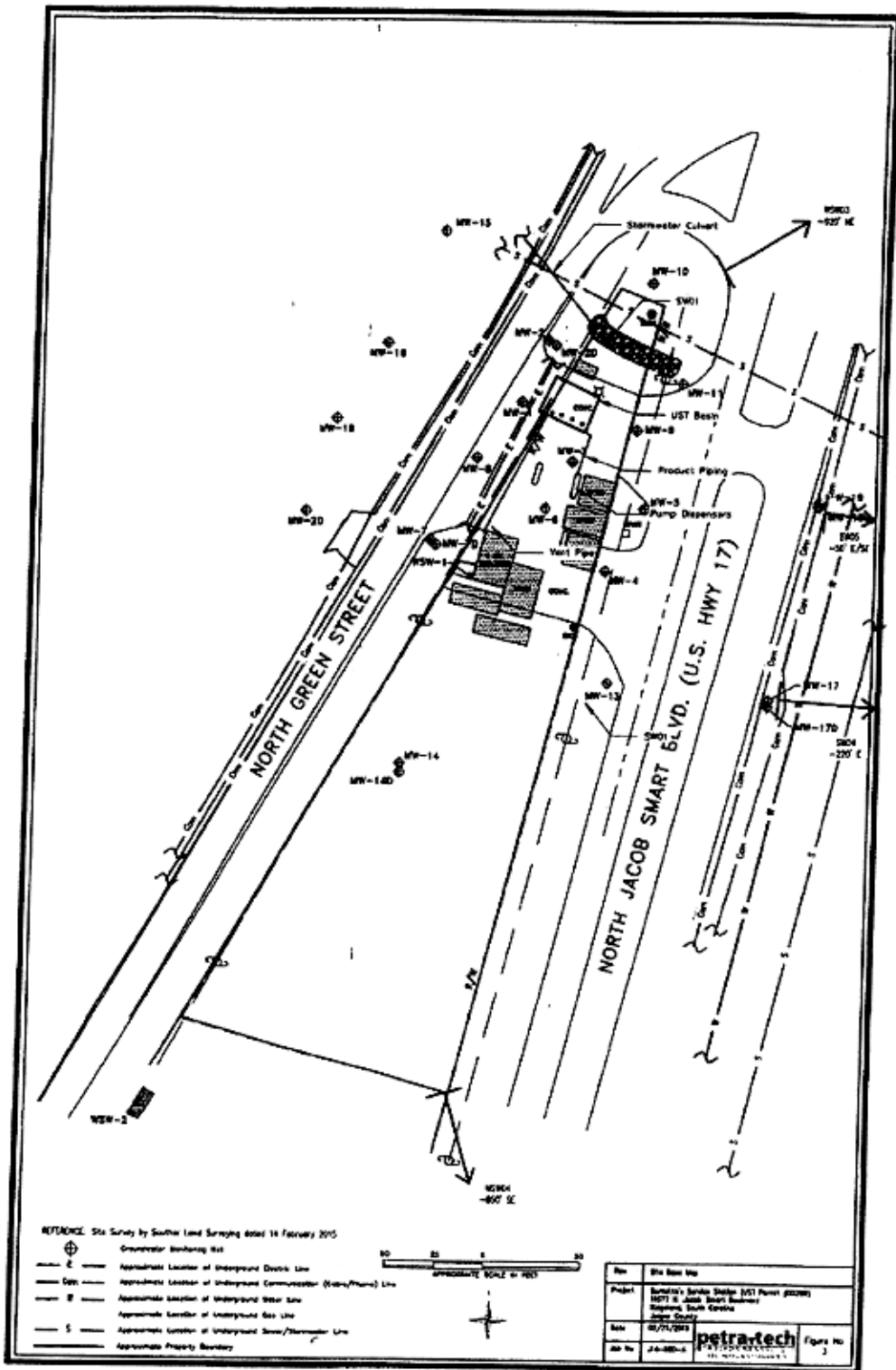
REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ Private Water Supply Well



Title	Topographic Site Location Map		Figure No. 1
Project	Burnette's Service Station (UST Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	08/20/2014	<b>petra-tech</b> ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	
REV.	02/24/2015		
Job No.	J14-080-A		





NOV 09 2017

MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071



Re: **Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906, PO #4600582306  
Burnette's Service Station, 11577 N Jacob Smart Blvd, Ridgeland, SC  
UST Permit #05289; MECI CA #55838; Pace CA #55839  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone 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 UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. 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. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

**Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Ashleigh Thrash, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0605 or via e-mail at gathinnr@dhec.sc.gov. If you have any contract specific questions, please contact Ashleigh Thrash at (803) 898-0607 or via e-mail at thrasham@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "N. Gathings". The signature is fluid and cursive, with a long horizontal stroke at the end.

Nicholas Gathings, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: Ashleigh Thrash, Corrective Action & Quality Assurance Section, UST Management  
Division (w/o enc)  
Trey Carter, Pace Analytical Services, 9800 Kinsey Ave, Ste 100, Huntersville, NC, 28078  
(w/app. CA)  
Technical Files (w/enc)

# Approved Cost Agreement 55839

Facility: 05289 BURNETTES SERVICE STATION

BRYANTJC

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	32.0000	\$14.000	448.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	7.0000	\$36.000	252.00
		M 7-OXYGENATES & ETHANOL (8260B)	7.0000	\$13.000	91.00
		<b>Total Amount</b>			<b>791.00</b>

**Approved Cost Agreement 55838**

Facility: 05289 BURNETTES SERVICE STATION

BRYANTJC

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$1.000	2.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	24.0000	\$36.500	876.00
		C1 WATER SUPPLY	4.0000	\$18.000	72.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	5.0000	\$27.500	137.50
		H1 FIELD BLANK	2.0000	\$1.000	2.00
17 DISPOSAL		AA WASTEWATER	300.0000	\$1.000	300.00
23 EFR		D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
<b>Total Amount</b>					<b>1,391.50</b>



# Midlands Environmental Consultants, Inc.

December 12, 2001  
UST  
Kathryn  
DIVISION

UST  
72  
CHECK  
DOCKETING

Ms. Ashleigh Thrash, 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  
Burnette's Service Station  
11577 North Jacob Smart Boulevard  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289; CA # 55838  
MECI Project Number 17-6202  
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Thrash,

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).

## PROJECT INFORMATION

The subject site (Burnette's Service Station) is located at 11577 North Jacob Smart Boulevard in Ridgeland, Jasper County, South Carolina. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	4,000 Gal. Gasoline	Abandoned	Removed (Unknown)
2	4,000 Gal. Gasoline	Abandoned	Removed (Unknown)
3	6,000 Gal. Gasoline	Abandoned	Removed (Unknown)
4	3,000 Gal. Diesel Fuel	Abandoned	Removed (Unknown)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in December of 1991. The release was confirmed in March of 1992 and has been classified a Class 2BA due to water supply wells being located within 1 year hydraulically downgradient of the subject site.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On November 30, 2017, MECI personnel collected groundwater samples from twenty-four (24) monitoring wells, five (5) surface water features, and two (2) water supply wells at the referenced site. Water supply well WSW-2 was found to be inactive during the sampling event and the property owner of WSW-4 denied MECI personnel permission to collect samples. Based on the request by SCDHEC personnel, all monitoring wells were to be purged prior to sample collection. Twenty-four (24) monitoring wells were purged prior to sample collection.

Prior to sampling, 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. 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, water temperature, and turbidity were obtained before well sampling process. MECI utilized 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 SCDHEC's most recent revision of the Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent revision of Standard Operating Procedures.

Groundwater samples obtained were sent to PACE Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006) 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 (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524-2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-1	X						X		X	X			
MW-2	X						X		X	X			
MW-2D	X						X		X	X			
MW-3	X						X		X	X			
MW-4	X						X		X	X			
MW-5	X						X		X	X			
MW-6	X						X		X	X			
MW-7	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 (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-7D	X						X		X	X			
MW-8	X						X		X	X			
MW-9	X						X		X	X			
MW-10	X						X		X	X			
MW-11	X						X		X	X			
MW-13	X						X		X	X			
MW-14	X						X		X	X			
MW-15	X						X		X	X			
MW-16	X						X		X	X			
MW-17	X						X		X	X			
MW-17D	X						X		X	X			
MW-18	X						X		X	X			
MW-19	X						X		X	X			
MW-19D	X						X		X	X			
MW-20	X						X		X	X			
SW-1		X					X		X	X			
SW-2		X					X		X	X			
SW-3		X					X		X	X			
SW-4		X					X		X	X			
SW-5		X					X		X	X			
DUP-1(MW-7)							X		X	X			
DUP-2(MW-6)							X		X	X			
Field Blank							X		X	X			
Trip Blank							X		X	X			
WSW-1										X		X	
WSW-2					X								
WSW-3										X		X	
WSW-4					X								
DUP (WSW-3)										X		X	
Field Blank-WSW										X		X	
Trip Blank-WSW										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 224.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist

**Attachments:**

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
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? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	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		

**Site Activity Summary**

UST Permit #: 05289  
 Facility Name: Burnette's Station  
 County: Jasper  
 Field Personnel: J. Coolman, J. Phillips, C. Phillips, P. Wylie



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1	Y	11/30/17	13:55	2-12	***	2.65	***	0.69	8.00	Strong Odor
MW-2	Y	11/30/17	13:00	3.68-13.68	***	4.20	***	0.86	8.00	No Odor
MW-2D	Y	11/30/17	13:05	24.80-29.80	***	4.03	***	2.37	16.00	No Odor
MW-3	Y	11/30/17	13:45	3.12-13.12	***	3.89	***	0.67	7.50	Strong Odor
MW-4	Y	11/30/17	12:40	3.59-13.59	***	3.43	***	1.82	8.50	No Odor
MW-5	Y	11/30/17	13:00	3.66-13.66	***	1.37	***	2.39	10.00	No Odor
MW-6	Y	11/30/17	13:15	3.29-13.29	***	3.91	***	1.80	8.00	Odor
MW-7	Y	11/30/17	12:00	3.75-13.75	***	4.07	***	2.01	8.00	No Odor
MW-7D	Y	11/30/17	12:05	27.29-32.29	***	4.79	***	2.97	10.00	No Odor
MW-8	Y	11/30/17	13:30	3.45-13.45	***	4.13	***	2.49	7.50	Odor
MW-9	Y	11/30/17	13:40	3.76-13.76	***	2.30	***	0.52	9.50	Slight Odor
MW-10	Y	11/30/17	12:30	3.42-13.42	***	2.15	***	0.92	9.50	No Odor
MW-11	Y	11/30/17	13:20	3.65-13.65	***	2.97	***	0.66	9.00	No Odor
MW-13	Y	11/30/17	12:25	3.62-13.62	***	1.33	***	2.37	10.00	No Odor
MW-14	Y	11/30/17	11:25	3.72-13.72	***	3.01	***	2.53	9.00	Sulfuric Odor
									138.50	<b>TOTAL GALLONS PURGED</b>

### Site Activity Summary

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** Jasper  
**Field Personnel:** J. Coolman, J. Phillips, C. Phillips, P. Wylie



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-14D	Y	11/30/17	11:30	18.57-23.57	***	2.42	***	4.31	9.50	No Odor
MW-15	Y	11/30/17	10:40	3.64-13.64	***	1.84	***	0.88	10.00	No Odor
MW-16	Y	11/30/17	10:55	1.85-11.85	***	6.22	***	1.42	7.50	No Odor, 3.36' Stick-Up Vault
MW-17	Y	11/30/17	11:30	3.71-13.71	***	1.96	***	0.86	10.00	No Odor
MW-17D	Y	11/30/17	11:35	25.31-30.31	***	3.16	***	1.79	10.50	No Odor
MW-18	Y	11/30/17	10:55	2.38-12.38	***	5.53	***	3.23	8.00	No Odor, 2.72' Stick-Up Vault
MW-19	Y	11/30/17	12:10	3.80-13.80	***	3.30	***	0.58	8.50	No Odor
MW-19D	Y	11/30/17	12:15	26.94-31.94	***	3.17	***	1.06	12.00	No Odor
MW-20	Y	11/30/17	10:40	3.17-13.17	***	0.93	***	2.68	10.00	No Odor
SW-1	Y	11/30/17	11:15	***	***	***	***	***	***	Taken from ditch
SW-2	Y	11/30/17	11:10	***	***	***	***	***	***	Taken from surface water feature near MW-13
SW-3	Y	11/30/17	10:52	***	***	***	***	***	***	Taken from intermittent stream
SW-4	Y	11/30/17	11:03	***	***	***	***	***	***	Taken from pond
SW-5	Y	11/30/17	10:57	***	***	***	***	***	***	Taken from ditch
DUP-1	Y	11/30/17	12:00	***	***	***	***	***	***	Duplicate of MW-7
									86.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** Jasper  
**Field Personnel:** J. Coolman, J. Phillips, C. Phillips, P. Wylie



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
DUP-2	Y	11/30/17	13:15	***	***	***	***	***	***	Duplicate of MW-6
Field Blank	Y	11/30/17	13:35	***	***	***	***	***	***	Field Blank
Trip Blank	Y	11/30/17	13:55	***	***	***	***	***	***	Trip Blank
WSW-1	Y	11/30/17	11:22	***	***	***	***	***	***	11577 N. Jacob Smart Blvd., Sample collected from spigot on WSW
WSW-2	N	11/30/17	NS	***	***	***	***	***	***	Inoperable
WSW-3	Y	11/30/17	10:45	***	***	***	***	***	***	10754 N. Jacob Smart Blvd., Sample collected from spigot on front of house/church
WSW-4	N	11/30/17	NS	***	***	***	***	***	***	No address posted, Permission Denied
WSW-DUP	Y	11/30/17	12:25	***	***	***	***	***	***	Duplicate sample of WSW-3
Filed Blank	Y	11/30/17	11:55	***	***	***	***	***	***	Field Blank-WSW
Trip Blank	Y	11/30/17	13:20	***	***	***	***	***	***	Trip Blank-WSW
									0.00	<b>TOTAL GALLONS PURGED</b>



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JPCP, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: 3

Job Name: Burnette's Service Station  
 Job Number: 17-6202

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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-1	Initial	13:45	5.89	319.7	24.7	0.69	24.31		2.65	2-12	9.35	1.52	8.0	Strong odor	
	1st	13:47	5.73	326	23.5	0.52	36.85								
	2nd	13:49	5.60	307.1	22.6	0.46	45.29								
	3rd	13:51	5.54	303.9	21.8	0.39	42.67								
	4th	13:53	5.48	301.2	21.5	0.42	34.72								
	5th	13:55	5.45	299.4	21.9	0.40	28.95								
	Sampling											7.62			
MW-2	Initial	12:50	6.67	766	23.7	0.86	38.47		4.20	3.68	9.48	1.55	8.0	No odor	
	1st	12:52	6.50	749	22.4	0.79	50.62								
	2nd	12:54	6.38	757	21.5	0.74	64.82								
	3rd	12:56	6.34	743	20.9	0.81	71.39								
	4th	12:58	6.41	739	20.6	0.87	60.15								
	5th	1:00	6.44	737	20.4	0.83	42.04								
	Sampling											7.73			
MW-20	Initial	12:35	6.36	432.4	24.0	2.37	6.19		4.03	24.80	25.77	4.20	10.0	No odor	
	1st	12:40	6.18	425.1	22.9	2.17	20.63								
	2nd	12:45	6.12	421.0	22.5	2.05	28.01								
	3rd														
	4th														
	5th														
	Sampling	13:05	6.17	416.6	23.4	2.13	22.47					21.00			
MW-3	Initial	13:35	6.10	243.5	23.6	0.67	9.59		3.89	3.12	9.23	1.50	7.5	Strong odor	
	1st	13:37	5.86	244.1	22.1	0.48	16.41								
	2nd	13:39	5.72	274.2	21.3	0.42	37.25								
	3rd	13:41	5.64	276.0	20.5	0.35	52.32								
	4th	13:43	5.59	273.8	20.2	0.31	44.68								
	5th	13:45	5.55	272.3	20.4	0.45	30.19								
	Sampling											7.52			

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = π x 0.047 for 1" wells \* x .163 for 2" wells, or \* x .68 for 4" wells, 1.489 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.489

Sampling Case#	Pb	Conductance SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183	
Case #2	15E101481	14H103098	201301174	
Case #3	10K 101895	08B101407	201510251	

33.5





## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JC, CP, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: \_\_\_\_\_

Job Name: Buinetto's Service Station  
 Job Number: 17-6202

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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-4	Initial	12:30	5.88	286.5	24.3	1.87	16.43								
	1st	12:32	5.64	271.3	23.2	1.74	29.60		3.43						
	2nd	12:34	5.54	264.8	20.4	1.68	35.81			3.99	10.16	1.66			No odor
	3rd	12:36	5.40	260.1	19.7	1.63	41.34								
	4th	12:38	5.33	256.9	19.2	1.59	43.97			13.59				8.5	
	5th	12:40	5.28	258.2	19.5	1.54	38.25						8.28		
	Sampling														
MW-5	Initial	12:45	6.32	576	22.2	2.39	8.55								
	1st	12:48	6.18	564	21.4	2.15	20.79		1.37						
	2nd	12:51	6.05	559	20.7	2.06	38.28			3.66	12.29	2.00			No odor
	3rd	12:54	5.88	556	20.3	1.95	46.11								
	4th	12:57	5.94	552	19.9	1.99	39.81			13.66				10.0	
	5th	13:00	5.82	553	20.0	2.02	32.06						10.02		
	Sampling														
MW-6	Initial	13:05	5.52	216.5	24.5	1.80	15.77								
	1st	13:07	5.40	210.1	23.5	1.63	37.42		3.91						
	2nd	13:09	5.28	207.4	22.7	1.51	56.14			3.29	9.38	1.53			Odor
	3rd	13:11	5.33	204.8	21.9	1.39	67.39								
	4th	13:13	5.25	202.9	21.5	1.33	57.80			13.29				8.0	
	5th	13:15	5.23	201.3	21.3	1.28	40.73						7.64		
	Sampling														
MW-7	Initial	11:50	6.25	299.7	23.6	2.01	18.29								
	1st	11:52	6.13	283.1	23.0	1.86	25.07		4.07						Dup 2
	2nd	11:54	6.04	276.0	22.5	1.69	31.36			3.75	4.68	1.58			No odor
	3rd	11:56	6.00	271.4	22.1	1.62	36.52								
	4th	11:58	5.96	267.1	21.8	1.57	40.19			13.75				8.0	
	5th	12:00	6.01	265.8	21.7	1.54	33.84						7.89		
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x .047 for 1" wells, x .163 for 2" wells, or x .58 for 4" wells, 1.469 for 6" wells

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	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	088101407	201510251

34.5



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JPC, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: \_\_\_\_\_

Job Name: Buinettes Service Station  
 Job Number: 17-5202

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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MV-7D	Initial	11:35	6.32	328.5	23.9	2.97	11.48								
	1st	11:41	6.19	319.2	22.5	2.73	20.66		4.79		27.29	27.50	4.48		No odor
	2nd	11:47	6.10	313.8	22.0	2.63	27.51				31.29				
	3rd														
	4th														
	5th														
	6th														
Sampling	2:05	6.07	310.4	21.8	2.55	22.73							22.41	10.0	
MV-8	Initial	13:20	6.26	614	25.7	2.49	12.25								
	1st	13:22	6.09	609	24.2	2.21	33.87		4.13		3.45	9.32	1.52		Odor
	2nd	13:24	6.04	602	23.6	2.38	39.43				13.45				
	3rd	13:26	5.97	594	22.9	2.30	48.69								
	4th	13:28	5.92	591	22.5	2.24	35.27								
	5th	13:30	5.98	588	22.3	2.17	29.81								
	6th														
Sampling													7.59	7.5	
MV-9	Initial	13:25	6.13	792	23.2	0.52	8.32								
	1st	13:28	5.94	783	22.4	0.47	24.71		2.30		3.76	11.46	1.87		Slight odor
	2nd	13:31	5.82	771	21.7	0.41	40.64								
	3rd	13:34	5.76	765	21.3	0.43	53.28								
	4th	13:37	5.71	762	21.0	0.36	61.27								
	5th	13:40	5.66	758	21.1	0.35	49.33								
	6th														
Sampling													4.34	9.5	
MV-10	Initial	12:20	5.85	79.2	21.6	0.92	32.61								
	1st	12:22	5.71	72.4	20.9	0.95	46.89		2.15		3.42	11.27	1.84		No odor
	2nd	12:24	5.62	70.6	20.4	0.94	53.67								
	3rd	12:26	5.53	69.5	20.1	1.02	42.35								
	4th	12:28	5.47	65.8	19.8	1.14	34.14								
	5th	12:30	5.41	66.7	19.7	1.09	28.60								
	6th														
Sampling													9.18	4.5	

\* = (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	Pb/Conductance SS	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103088	201301174
Case #3	10K 101895	.088T01407	201510251

36.5



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JPC, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: \_\_\_\_\_

Job Name: Duquette's Service Station  
 Job Number: 17-6202

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):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-11	Initial	13:10	6.60	268.2	21.7	0.66	41.64								
	1st	13:12	6.48	261.0	21.0	0.79	54.82		2.97		3.65	10.68	1.74		No odor
	2nd	13:14	6.51	254.7	20.3	0.75	60.91				-			9.0	
	3rd	13:16	6.43	252.1	19.9	0.84	43.26				13.65				
	4th	13:18	6.37	247.3	19.7	0.93	35.03								
	5th	13:20	6.37	251.9	20.1	0.96	31.58								
	Sampling												8.70		
MW-13	Initial	12:10	6.53	366.9	21.7	2.37	9.35								
	1st	12:13	6.39	361.5	20.4	2.22	17.18		1.33		3.62	12.29	2.00		No odor
	2nd	12:16	6.34	370.6	20.2	2.15	74.36				-			10.0	
	3rd	12:19	6.37	374.7	19.8	2.08	20.52				13.62				
	4th	12:22	6.25	358.2	19.6	2.04	28.74								
	5th	12:25	6.23	354.3	19.5	2.10	34.90								
	Sampling												10.02		
MW-14	Initial	11:15	6.01	40.3	22.3	2.53	19.52								
	1st	11:17	5.83	84.9	21.0	2.78	33.83		3.01		3.72	10.71	1.75		Sulfur odor
	2nd	11:19	5.69	81.2	20.4	2.33	47.29				-			9.0	
	3rd	11:21	5.52	76.4	20.0	2.74	56.13				13.72				
	4th	11:23	5.56	72.5	19.8	2.16	42.35								
	5th	11:25	5.64	70.9	19.6	2.19	36.04								
	Sampling												8.73		
MW-14D	Initial	11:00	6.73	395.9	22.0	4.31	13.81								
	1st	11:05	6.42	416.3	19.9	4.07	26.49		2.42		18.97	21.15	3.45		No odor
	2nd	11:10	6.29	427.1	19.3	4.01	39.62				-			Diy @ 9.5	
	3rd										23.57				
	4th														
	5th														
Sampling		11:30	6.25	421.8	19.5	4.11	23.53						17.24		

\* = (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/Conductivity SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103088	201301174
Case #3	10K 101895	08B101407	201510251

37.5



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JPC, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: 3

Job Name: Buinettes Service Station  
 Job Number: 17-5202

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
MW-15	Initial	10:30	6.98	726	20.1	0.98	24.37									
	1st	10:32	6.45	738	19.3	0.83	48.46		1.84		3.64	11.80	1.92		No odor	
	2nd	10:34	6.32	744	18.6	0.98	64.53							100		
	3rd	10:36	6.24	740	18.2	1.07	77.81									
	4th	10:38	6.20	746	18.3	1.11	82.29									
	5th	10:40	6.23	745	18.4	1.13	59.07									
	Sampling												9.62			
Initial	10:45	6.68	492	20.4	1.42	38.66										
MW-16	1st	10:47	6.45	473	19.7	1.24	59.17		6.22		1.85	8.99	1.47		No odor	
	2nd	10:49	6.31	476	19.2	1.18	73.64		5.1					7.5		
	3rd	10:51	6.22	458	18.8	1.29	86.79									
	4th	10:53	6.18	463	18.9	1.15	95.38									
	5th	10:55	6.25	467	19.2	1.16	68.05									
	Sampling												7.33			
	Initial	11:20	6.29	663	22.1	0.86	21.73									
MW-17	1st	11:22	6.31	661	21.3	0.72	42.82		1.96		3.71	11.75	1.92		No odor	
	2nd	11:24	6.22	657	20.8	0.63	56.17							100		
	3rd	11:26	6.10	653	20.5	0.57	49.36									
	4th	11:28	6.06	650	20.4	0.52	43.24									
	5th	11:30	6.05	649	20.5	0.54	31.52									
	Sampling												9.58			
	Initial	11:00	5.90	68.7	22.3	1.79	12.56									
MW-17D	1st	11:06	5.74	73.5	21.4	1.64	21.83		3.16		25.31	27.15	4.43		No odor	
	2nd	11:12	5.53	74.8	20.8	1.67	25.64							Dry @ 10.5		
	3rd															
	4th															
	5th															
	Sampling												22.13			
	Initial	11:35	5.46	72.1	20.9	1.88	19.74									

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .56 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 SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103088	201301174
Case #3	10K 101885	.08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JP, CP, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: 3

Job Name: Bulnette's Service Station  
 Job Number: 17-6202

Calibration Data for :  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No  
 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):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-18	Initial	0:45	6.46	344.5	20.3	3.23	33.46								
	1st	0:47	6.23	333.6	19.4	3.11	48.17		5.53		2.38	9.57	1.56		No odor
	2nd	0:49	6.14	321.7	18.8	3.02	61.63		SU:					8.0	
	3rd	0:51	6.05	213.0	18.4	2.75	70.85		2.72						
	4th	0:53	6.10	307.2	18.2	2.82	57.49				12.38				
	5th	0:55	6.08	306.1	18.3	2.86	36.20		2.81				7.79		
Sampling															
MW-19	Initial	12:06	5.88	325.3	22.8	0.58	13.79								
	1st	12:07	5.62	328.5	21.9	0.47	26.18		3.30		3.80	10.50	1.71		No odor
	2nd	12:04	5.47	323.9	21.3	0.40	47.53							8.5	
	3rd	12:06	5.40	331.8	21.0	0.42	40.96								
	4th	12:08	5.36	324.7	21.2	0.44	32.20				13.80				
	5th	12:10	5.31	319.6	21.4	0.41	35.74						8.56		
Sampling															
MW-19D	Initial	11:40	6.45	385.3	22.6	1.06	17.92								
	1st	11:46	6.32	381.2	21.4	0.98	26.07		3.17		26.94	28.77	4.69		No odor
	2nd	11:52	6.27	376.1	20.8	1.13	31.18							12.0	
	3rd														
	4th														
	5th										31.94				
Sampling	12:05	6.24	370.5	20.4	1.17	28.64						23.45			
MW-20	Initial	0:30	4.55	203.9	20.2	2.68	27.81								
	1st	0:32	4.38	201.4	19.3	2.45	42.36		0.93		3.17	12.24	1.99		No odor
	2nd	0:34	4.27	195.2	18.6	2.29	71.93							10.0	
	3rd	0:36	4.22	190.6	18.1	2.13	100.6								
	4th	0:38	4.25	188.3	17.8	2.04	92.54				13.17				
	5th	0:40	4.30	191.6	17.9	2.08	53.6						9.98		
Sampling															

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or x .86 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.863
6"	1.469

Sampling Case#	Pb/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101885	08B101467	201510251

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## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JPC, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: \_\_\_\_\_

Job Name: Buinette's Service Station  
 Job Number: 17-5202

**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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	Final H <sub>2</sub> O			**calc.	actual	
SW's	Initial	1 -	11:15												
	1st														
	2nd	2 -	11:10												
	3rd														
	4th	3 -	10:52												
Dup	5th														
	Sampling	4 -	11:03												
	Initial														
	1st	5 -	10:57												
	2nd														
Blanks	3rd														
	4th	1 -	12:00	MW-7	No odor										
	5th														
	Sampling	2 -	13:15	MW-6	odor										
	Initial														
	1st														
	2nd	Field -	13:55												
	3rd														
	4th	Twp -	13:57												
	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#	Pb/Conductance SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

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## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JPCP, PW  
 Sampling Date(s): 11/30/17  
 Sampling Case#: \_\_\_\_\_

Job Name: Burnette's Service Station  
 Job Number: 17-6202

**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()	cond()	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes		
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual			
WSW's	Initial																
	1st	WSW-1		11:22													
	2nd																
	3rd																
	4th																
	5th	WSW-2															
WSW Dup	Sampling																
	Initial																
	1st																
	2nd	WSW-3		10:45													
	3rd																
	4th																
WSW Blanks	5th																
	Sampling	WSW-4															
	Initial																
	1st																
	2nd	WSW-3 →		10:47													
	3rd																
WSW Blanks	4th																
	5th	F-		11:30													
	Sampling	BT-		11:32													
	Initial																
	1st																

\* = (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 SW	DO SW	Turbidity
Case #1	15H101448	12G102678	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	06B101467	201510251



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

### Section A

Required Client Information:

Company: SCDHEC-VST  
 Address: 2600 Bull Street  
Columbia, SC 29201  
 Email To: hr@dhce.sc.gov  
 Phone: 803.898.0607 Fax: 803.898.0673  
 Requested Due Date/TAT:

### Section B

Required Project Information:

Report To: A. Thrash-VST  
 Copy To:  
 Purchase Order No: 4600422513  
 Project Name: Burnette's Service Station  
 Project Number: VST 05284 / 55839

### Section C

Invoice Information:

Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager: T. Cofer  
 Pace Profile #:

Page: 1 of 3  
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**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location  
 STATE: SC Jasper

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																			
		SAMPLE ID (A-Z, 0-9 / .)	Matrix Code	COMPOSITE START		COMPOSITE END/GRAB								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol	Other	Analysis Test ↓ Y/N	Temp	Refrigerated	Cooled	Intact						
				DATE	TIME	DATE	TIME																									
				DATE		TIME																					DATE		TIME			
1	MW-1	DW	WT			11/30/17	3:55	3		X	X	X	X	X	X					Strong odor												
2	MW-2	WW	WW				3:00	3		X	X	X	X	X	X					No odor												
3	MW-2D	SL	SL				3:05	3		X	X	X	X	X	X					No odor												
4	MW-3	P	P				3:45	3		X	X	X	X	X	X					No odor												
5	MW-4	OL	OL				2:40	3		X	X	X	X	X	X					Slight odor												
6	MW-5	WP	WP				3:00	3		X	X	X	X	X	X					No odor												
7	MW-6	AR	AR				3:15	3		X	X	X	X	X	X					No odor												
8	MW-7	TS	TS				12:00	3		X	X	X	X	X	X					Odor												
9	MW-7D	OT	OT				12:05	3		X	X	X	X	X	X					No odor												
10	MW-8						3:30	3		X	X	X	X	X	X					No odor												
11	MW-9						3:40	3		X	X	X	X	X	X					Odor												
12	MW-10					11/30/17	12:30	3		X	X	X	X	X	X					Slight odor												
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																		
		J.V. PLY		12/1/17		8:19		John PACE		12/1/17		6:19																				

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Peter J Wylie  
 SIGNATURE of SAMPLER: *Peter J. Wylie* DATE Signed (MM/DD/YY): 11/30/17

Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Cooled (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

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











December 12, 2017

Re: Treatment of Purge Water  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 17-6202

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.

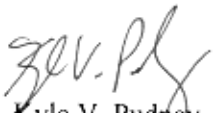
All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

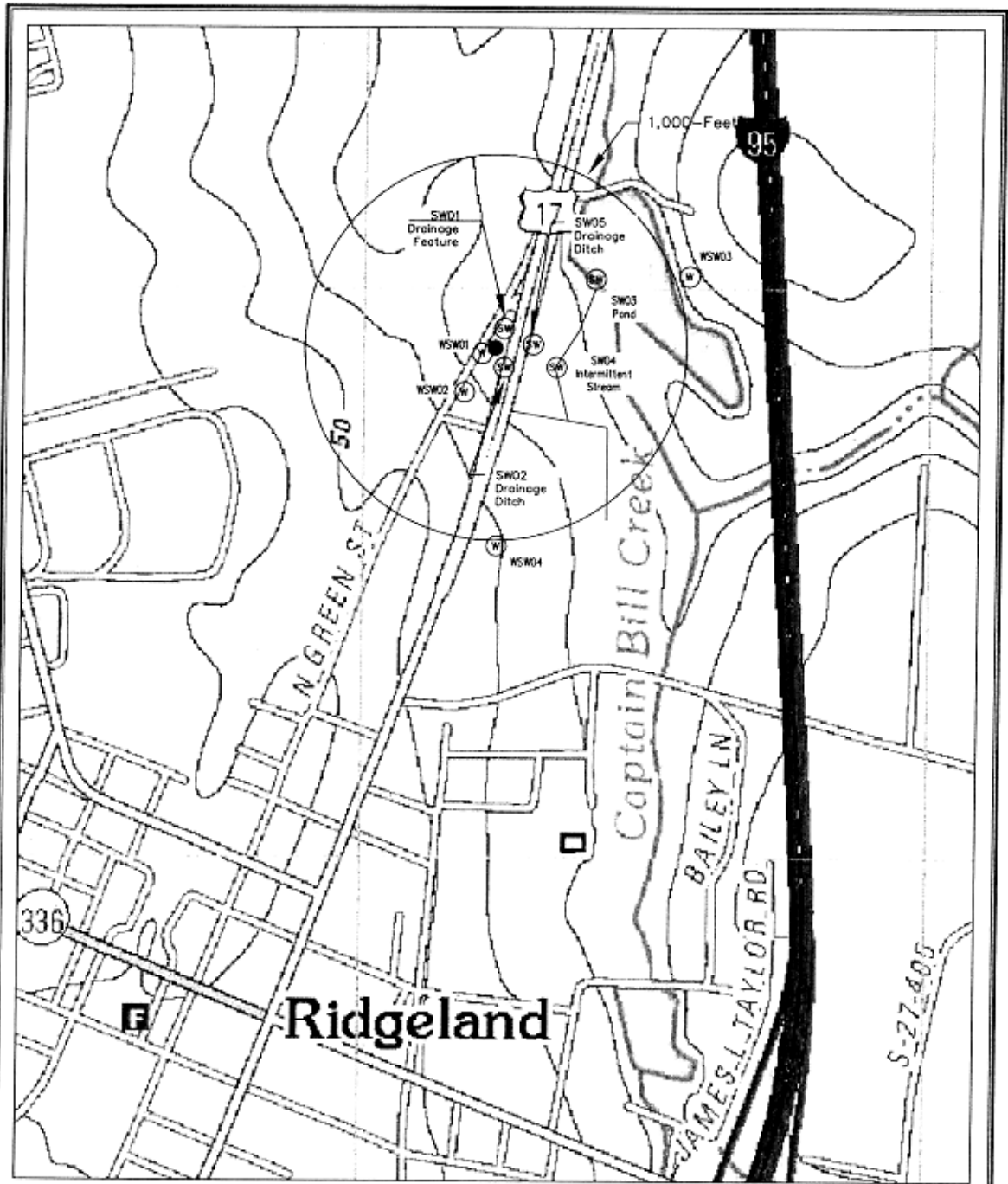
**A total of 224.50 gallons were treated on November 30, 2017 at the referenced site.**

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.

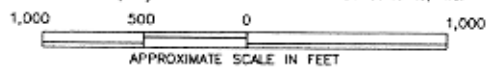
Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

  
Kyle V. Pudney  
Project Biologist



REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.

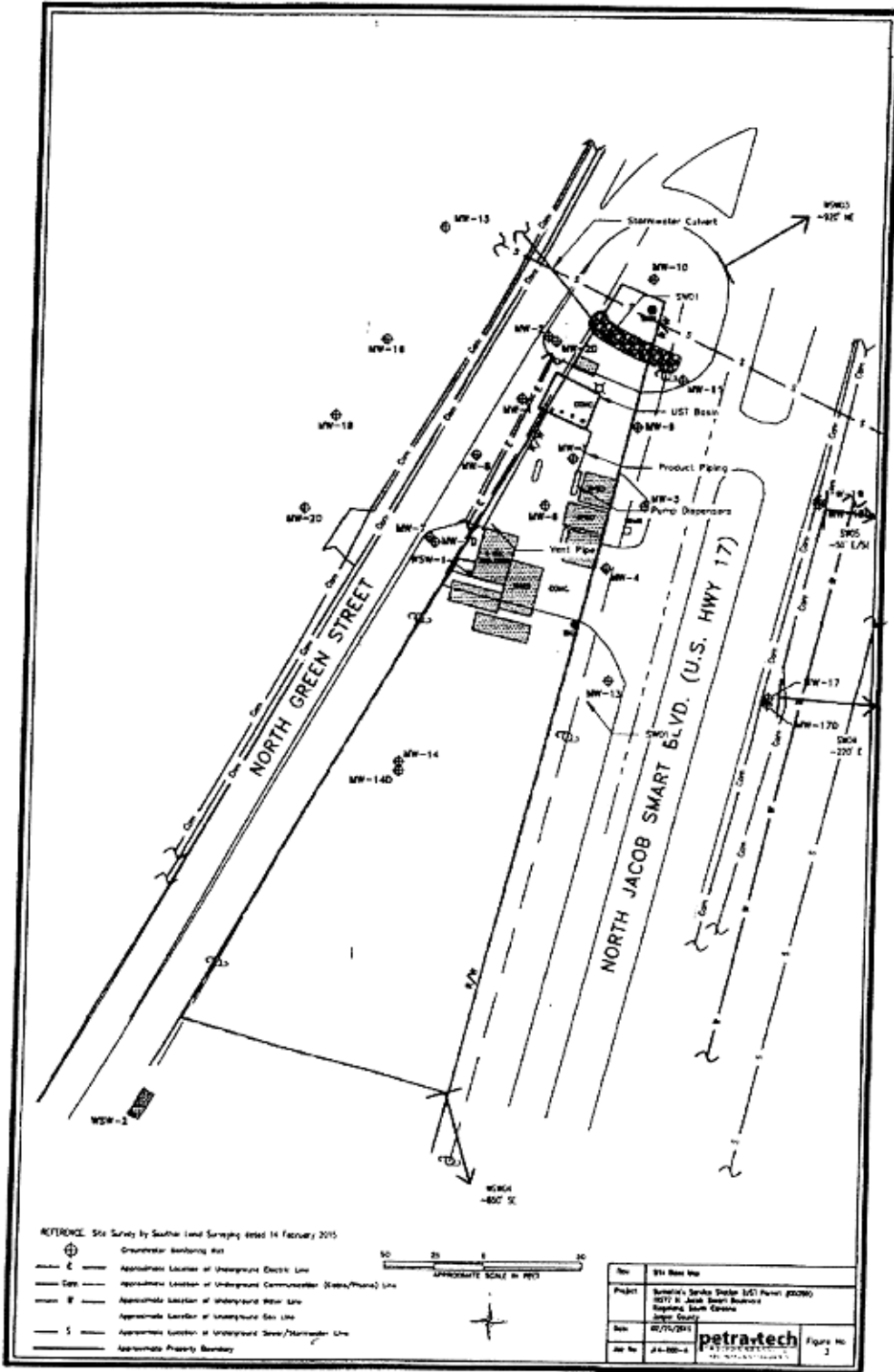


- Approximate Site Location
- ⊙ Surface Water
- ⊙ Private Water Supply Well



Title	Topographic Site Location Map	
Project	Bunette's Service Station (LST Permit #05288) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	
REV.	02/24/2015	
Job No.	J14-080-A	
Figure No.	1	

1.3





Pace Analytical Services, LLC  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

December 11, 2017

Ashleigh Thrash  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

Dear Ashleigh Thrash:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, LLC  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

### CERTIFICATIONS

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

---

#### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92365305001	MW-1	Water	11/30/17 13:55	12/01/17 14:39
92365305002	MW-2	Water	11/30/17 13:00	12/01/17 14:39
92365305003	MW-2D	Water	11/30/17 13:05	12/01/17 14:39
92365305004	MW-3	Water	11/30/17 13:45	12/01/17 14:39
92365305005	MW-4	Water	11/30/17 12:40	12/01/17 14:39
92365305006	MW-5	Water	11/30/17 13:00	12/01/17 14:39
92365305007	MW-6	Water	11/30/17 13:15	12/01/17 14:39
92365305008	MW-7	Water	11/30/17 12:00	12/01/17 14:39
92365305009	MW-7D	Water	11/30/17 12:05	12/01/17 14:39
92365305010	MW-8	Water	11/30/17 13:30	12/01/17 14:39
92365305011	MW-9	Water	11/30/17 13:40	12/01/17 14:39
92365305012	MW-10	Water	11/30/17 12:30	12/01/17 14:39
92365305013	MW-11	Water	11/30/17 13:20	12/01/17 14:39
92365305014	MW-13	Water	11/30/17 12:25	12/01/17 14:39
92365305015	MW-14	Water	11/30/17 11:25	12/01/17 14:39
92365305016	MW-14D	Water	11/30/17 11:30	12/01/17 14:39
92365305017	MW-15	Water	11/30/17 10:40	12/01/17 14:39
92365305018	MW-16	Water	11/30/17 10:55	12/01/17 14:39
92365305019	MW-17	Water	11/30/17 11:30	12/01/17 14:39
92365305020	MW-17D	Water	11/30/17 11:35	12/01/17 14:39
92365305021	MW-18	Water	11/30/17 10:55	12/01/17 14:39
92365305022	MW-19	Water	11/30/17 12:10	12/01/17 14:39
92365305023	MW-19D	Water	11/30/17 12:15	12/01/17 14:39
92365305024	MW-20	Water	11/30/17 10:40	12/01/17 14:39
92365305025	SW-1	Water	11/30/17 11:15	12/01/17 14:39
92365305026	SW-2	Water	11/30/17 11:10	12/01/17 14:39
92365305027	SW-3	Water	11/30/17 10:52	12/01/17 14:39
92365305028	SW-4	Water	11/30/17 11:03	12/01/17 14:39
92365305029	SW-5	Water	11/30/17 10:57	12/01/17 14:39
92365305030	Dup 1	Water	11/30/17 12:00	12/01/17 14:39
92365305031	Dup 2	Water	11/30/17 13:15	12/01/17 14:39
92365305032	Field Blank	Water	11/30/17 13:55	12/01/17 14:39
92365305033	Trip Blank	Water	11/30/17 13:57	12/01/17 14:39

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92365305001	MW-1	EPA 8260	GAW	20	PASI-C
92365305002	MW-2	EPA 8260	GAW	20	PASI-C
92365305003	MW-2D	EPA 8260	GAW	20	PASI-C
92365305004	MW-3	EPA 8260	GAW	20	PASI-C
92365305005	MW-4	EPA 8260	GAW	20	PASI-C
92365305006	MW-5	EPA 8260	GAW	20	PASI-C
92365305007	MW-6	EPA 8260	GAW	20	PASI-C
92365305008	MW-7	EPA 8260	GAW	20	PASI-C
92365305009	MW-7D	EPA 8260	GAW	20	PASI-C
92365305010	MW-8	EPA 8260	GAW	20	PASI-C
92365305011	MW-9	EPA 8260	GAW	20	PASI-C
92365305012	MW-10	EPA 8260	GAW	20	PASI-C
92365305013	MW-11	EPA 8260	GAW	20	PASI-C
92365305014	MW-13	EPA 8260	GAW	20	PASI-C
92365305015	MW-14	EPA 8260	GAW	20	PASI-C
92365305016	MW-14D	EPA 8260	GAW	20	PASI-C
92365305017	MW-15	EPA 8260	GAW	20	PASI-C
92365305018	MW-16	EPA 8260	GAW	20	PASI-C
92365305019	MW-17	EPA 8260	GAW	20	PASI-C
92365305020	MW-17D	EPA 8260	GAW	20	PASI-C
92365305021	MW-18	EPA 8260	GAW	20	PASI-C
92365305022	MW-19	EPA 8260	GAW	20	PASI-C
92365305023	MW-19D	EPA 8260	GAW	20	PASI-C
92365305024	MW-20	EPA 8260	GAW	20	PASI-C
92365305025	SW-1	EPA 8260	GAW	20	PASI-C
92365305026	SW-2	EPA 8260	GAW	20	PASI-C
92365305027	SW-3	EPA 8260	GAW	20	PASI-C
92365305028	SW-4	EPA 8260	GAW	20	PASI-C
92365305029	SW-5	EPA 8260	GAW	20	PASI-C
92365305030	Dup 1	EPA 8260	GAW	20	PASI-C
92365305031	Dup 2	EPA 8260	GAW	20	PASI-C
92365305032	Field Blank	EPA 8260	GAW	20	PASI-C
92365305033	Trip Blank	EPA 8260	GAW	20	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92365305001</b>	<b>MW-1</b>					
EPA 8260	tert-Amyl Alcohol	373J	ug/L	400	12/08/17 16:33	
EPA 8260	Benzene	239	ug/L	20.0	12/08/17 16:33	
EPA 8260	Ethylbenzene	167	ug/L	20.0	12/08/17 16:33	
EPA 8260	Naphthalene	395	ug/L	20.0	12/08/17 16:33	
EPA 8260	Toluene	27.3	ug/L	20.0	12/08/17 16:33	
EPA 8260	Xylene (Total)	277	ug/L	20.0	12/08/17 16:33	
EPA 8260	m&p-Xylene	229	ug/L	40.0	12/08/17 16:33	
EPA 8260	o-Xylene	48.3	ug/L	20.0	12/08/17 16:33	
<b>92365305002</b>	<b>MW-2</b>					
EPA 8260	tert-Butyl Alcohol	832	ug/L	100	12/08/17 16:01	
EPA 8260	Methyl-tert-butyl ether	36.3	ug/L	5.0	12/08/17 16:01	
<b>92365305004</b>	<b>MW-3</b>					
EPA 8260	Benzene	1780	ug/L	1000	12/08/17 10:21	
EPA 8260	Ethylbenzene	1830	ug/L	1000	12/08/17 10:21	
EPA 8260	Naphthalene	630J	ug/L	1000	12/08/17 10:21	
EPA 8260	Toluene	16800	ug/L	1000	12/08/17 10:21	
EPA 8260	Xylene (Total)	11100	ug/L	1000	12/08/17 10:21	
EPA 8260	m&p-Xylene	7170	ug/L	2000	12/08/17 10:21	
EPA 8260	o-Xylene	3890	ug/L	1000	12/08/17 10:21	
<b>92365305005</b>	<b>MW-4</b>					
EPA 8260	Xylene (Total)	33.4	ug/L	5.0	12/08/17 00:18	
EPA 8260	m&p-Xylene	33.4	ug/L	10.0	12/08/17 00:18	
<b>92365305007</b>	<b>MW-6</b>					
EPA 8260	Benzene	2440	ug/L	1000	12/08/17 16:17	
EPA 8260	Ethylbenzene	1650	ug/L	1000	12/08/17 16:17	
EPA 8260	Naphthalene	540J	ug/L	1000	12/08/17 16:17	
EPA 8260	Toluene	16900	ug/L	1000	12/08/17 16:17	
EPA 8260	Xylene (Total)	10900	ug/L	1000	12/08/17 16:17	
EPA 8260	m&p-Xylene	7580	ug/L	2000	12/08/17 16:17	
EPA 8260	o-Xylene	3340	ug/L	1000	12/08/17 16:17	
<b>92365305010</b>	<b>MW-8</b>					
EPA 8260	tert-Amyl Alcohol	472	ug/L	100	12/08/17 01:22	
EPA 8260	tert-Butyl Alcohol	156	ug/L	100	12/08/17 01:22	
EPA 8260	Ethylbenzene	4.3J	ug/L	5.0	12/08/17 01:22	
EPA 8260	Naphthalene	6.8	ug/L	5.0	12/08/17 01:22	
<b>92365305011</b>	<b>MW-9</b>					
EPA 8260	tert-Amyl Alcohol	735	ug/L	100	12/08/17 01:38	
EPA 8260	tert-Butyl Alcohol	446	ug/L	100	12/08/17 01:38	
EPA 8260	Methyl-tert-butyl ether	16.8	ug/L	5.0	12/08/17 01:38	
EPA 8260	Naphthalene	16.9	ug/L	5.0	12/08/17 01:38	
<b>92365305028</b>	<b>SW-4</b>					
EPA 8260	Ethanol	174J	ug/L	200	12/08/17 11:44	L1
EPA 8260	Toluene	0.61J	ug/L	1.0	12/08/17 11:44	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92365305029</b>	<b>SW-5</b>					
EPA 8260	Toluene	0.81J	ug/L	1.0	12/07/17 18:43	
<b>92365305031</b>	<b>Dup 2</b>					
EPA 8260	Benzene	2140	ug/L	500	12/08/17 09:13	
EPA 8260	Ethylbenzene	1620	ug/L	500	12/08/17 09:13	
EPA 8260	Naphthalene	630	ug/L	500	12/08/17 09:13	
EPA 8260	Toluene	18900	ug/L	500	12/08/17 09:13	
EPA 8260	Xylene (Total)	10800	ug/L	500	12/08/17 09:13	
EPA 8260	m&p-Xylene	7540	ug/L	1000	12/08/17 09:13	
EPA 8260	o-Xylene	3270	ug/L	500	12/08/17 09:13	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

---

**Method:** EPA 8260  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** December 11, 2017

### General Information:

5 samples were analyzed for EPA 8260. 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.

QC Batch: 389787

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2162394)
  - Ethanol
  - tert-Butyl Alcohol

QC Batch: 390045

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2164055)
  - Ethanol

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 389787

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92365084001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2162940)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

---

**Method:** EPA 8260  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** December 11, 2017

QC Batch: 389787

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92365084001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- tert-Butyl Alcohol
- MSD (Lab ID: 2162941)
- Ethanol
- tert-Butyl Alcohol

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

- MSD (Lab ID: 2162941)
- tert-Amyl Alcohol

R1: RPD value was outside control limits.

- MSD (Lab ID: 2162941)
- Ethanol

QC Batch: 390045

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92365084009

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

- MS (Lab ID: 2164057)
- tert-Butyl Alcohol

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

Analyte Comments:

QC Batch: 390045

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 2164056)
  - Methyl-tert-butyl ether
- MS (Lab ID: 2164057)
  - Methyl-tert-butyl ether

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** December 11, 2017

### General Information:

28 samples were analyzed for EPA 8260. 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.

#### QC Batch: 389946

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2163577)
- Ethanol

#### QC Batch: 390065

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2164281)
- Ethanol

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### QC Batch: 389946

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92365305024

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2163579)
- Ethanol

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

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**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** December 11, 2017

**QC Batch: 389946**

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92365305024

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

- MS (Lab ID: 2163579)
  - tert-Butyl Alcohol
  - tert-Butyl Formate

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: 2163579)
  - tert-Butyl Formate

**QC Batch: 390003**

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92365305003

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

- MS (Lab ID: 2164324)
  - tert-Butyl Alcohol
  - tert-Butyl Formate
- MSD (Lab ID: 2164325)
  - tert-Butyl Alcohol
  - tert-Butyl Formate

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: 2164324)
  - tert-Butyl Formate
- MSD (Lab ID: 2164325)
  - tert-Butyl Formate

R1: RPD value was outside control limits.

- MSD (Lab ID: 2164325)
  - tert-Butyl Formate

**QC Batch: 390065**

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92365083009

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 2164283)
  - Ethanol

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

- MS (Lab ID: 2164282)
  - tert-Butyl Alcohol
- MSD (Lab ID: 2164283)
  - tert-Butyl Alcohol

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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Pace Analytical Services, LLC  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

## PROJECT NARRATIVE

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

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Method: EPA 8260  
Description: 8260 MSV  
Client: SCDHEC  
Date: December 11, 2017

This data package has been reviewed for quality and completeness and is approved for release.

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-1      Lab ID: 92365305001      Collected: 11/30/17 13:55      Received: 12/01/17 14:39      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	373J	ug/L	400	307	4		12/08/17 16:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	13.6	4		12/08/17 16:33	994-05-8	
Benzene	239	ug/L	20.0	6.8	4		12/08/17 16:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	128	4		12/08/17 16:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	231	4		12/08/17 16:33	75-65-0	
tert-Butyl Formate	ND	ug/L	200	29.2	4		12/08/17 16:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	20.0	7.2	4		12/08/17 16:33	107-06-2	
Diisopropyl ether	ND	ug/L	20.0	6.8	4		12/08/17 16:33	108-20-3	
Ethanol	ND	ug/L	800	524	4		12/08/17 16:33	64-17-5	L1
Ethylbenzene	167	ug/L	20.0	6.4	4		12/08/17 16:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	14.4	4		12/08/17 16:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	20.0	6.8	4		12/08/17 16:33	1634-04-4	
Naphthalene	395	ug/L	20.0	8.0	4		12/08/17 16:33	91-20-3	
Toluene	27.3	ug/L	20.0	6.4	4		12/08/17 16:33	108-88-3	
Xylene (Total)	277	ug/L	20.0	20.0	4		12/08/17 16:33	1330-20-7	
m&p-Xylene	229	ug/L	40.0	12.4	4		12/08/17 16:33	179601-23-1	
o-Xylene	48.3	ug/L	20.0	6.4	4		12/08/17 16:33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		4		12/08/17 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		4		12/08/17 16:33	17060-07-0	
Toluene-d8 (S)	98	%	70-130		4		12/08/17 16:33	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-2 Lab ID: 92365305002 Collected: 11/30/17 13:00 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 16:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 16:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 16:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 16:01	624-95-3	
tert-Butyl Alcohol	832	ug/L	100	57.7	1		12/08/17 16:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 16:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 16:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 16:01	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 16:01	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 16:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 16:01	637-92-3	
Methyl-tert-butyl ether	36.3	ug/L	5.0	1.7	1		12/08/17 16:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 16:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 16:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 16:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 16:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 16:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/08/17 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/08/17 16:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 16:01	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-2D Lab ID: 92365305003 Collected: 11/30/17 13:05 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 10:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 10:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 10:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 10:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 10:04	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 10:04	762-75-4	M1,R1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 10:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 10:04	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 10:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 10:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 10:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 10:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 10:04	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 10:04	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 10:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 10:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 10:04	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/08/17 10:04	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/08/17 10:04	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/08/17 10:04	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839

Pace Project No.: 92365305

Sample: MW-3 Lab ID: 92365305004 Collected: 11/30/17 13:45 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	20000	15400	200		12/08/17 10:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	680	200		12/08/17 10:21	994-05-8	
Benzene	1780	ug/L	1000	340	200		12/08/17 10:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	6420	200		12/08/17 10:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	11500	200		12/08/17 10:21	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	1460	200		12/08/17 10:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	360	200		12/08/17 10:21	107-06-2	
Diisopropyl ether	ND	ug/L	1000	340	200		12/08/17 10:21	108-20-3	
Ethanol	ND	ug/L	40000	26200	200		12/08/17 10:21	64-17-5	
Ethylbenzene	1830	ug/L	1000	320	200		12/08/17 10:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	720	200		12/08/17 10:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	340	200		12/08/17 10:21	1634-04-4	
Naphthalene	630J	ug/L	1000	400	200		12/08/17 10:21	91-20-3	
Toluene	16800	ug/L	1000	320	200		12/08/17 10:21	108-88-3	
Xylene (Total)	11100	ug/L	1000	1000	200		12/08/17 10:21	1330-20-7	
m&p-Xylene	7170	ug/L	2000	620	200		12/08/17 10:21	179601-23-1	
o-Xylene	3890	ug/L	1000	320	200		12/08/17 10:21	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		200		12/08/17 10:21	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		200		12/08/17 10:21	17060-07-0	
Toluene-d8 (S)	102	%	70-130		200		12/08/17 10:21	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-4 Lab ID: 92365305005 Collected: 11/30/17 12:40 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 00:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 00:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 00:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 00:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 00:18	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 00:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 00:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 00:18	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 00:18	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 00:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 00:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 00:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 00:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 00:18	108-88-3	
Xylene (Total)	33.4	ug/L	5.0	5.0	1		12/08/17 00:18	1330-20-7	
m&p-Xylene	33.4	ug/L	10.0	3.1	1		12/08/17 00:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 00:18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/08/17 00:18	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/08/17 00:18	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/08/17 00:18	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-5 Lab ID: 92365305006 Collected: 11/30/17 13:00 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 00:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 00:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 00:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 00:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 00:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 00:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 00:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 00:34	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 00:34	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 00:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 00:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 00:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 00:34	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 00:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 00:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 00:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 00:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 00:34	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/08/17 00:34	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 00:34	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-6 Lab ID: 92365305007 Collected: 11/30/17 13:15 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	20000	15400	200		12/08/17 16:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	680	200		12/08/17 16:17	994-05-8	
Benzene	2440	ug/L	1000	340	200		12/08/17 16:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	6420	200		12/08/17 16:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	11500	200		12/08/17 16:17	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	1460	200		12/08/17 16:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	360	200		12/08/17 16:17	107-06-2	
Diisopropyl ether	ND	ug/L	1000	340	200		12/08/17 16:17	108-20-3	
Ethanol	ND	ug/L	40000	26200	200		12/08/17 16:17	64-17-5	L1
Ethylbenzene	1650	ug/L	1000	320	200		12/08/17 16:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	720	200		12/08/17 16:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	340	200		12/08/17 16:17	1634-04-4	
Naphthalene	540J	ug/L	1000	400	200		12/08/17 16:17	91-20-3	
Toluene	16900	ug/L	1000	320	200		12/08/17 16:17	108-88-3	
Xylene (Total)	10900	ug/L	1000	1000	200		12/08/17 16:17	1330-20-7	
m&p-Xylene	7580	ug/L	2000	620	200		12/08/17 16:17	179601-23-1	
o-Xylene	3340	ug/L	1000	320	200		12/08/17 16:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		200		12/08/17 16:17	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		200		12/08/17 16:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		200		12/08/17 16:17	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-7 Lab ID: 92365305008 Collected: 11/30/17 12:00 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 00:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 00:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 00:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 00:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 00:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 00:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 00:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 00:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 00:50	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 00:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 00:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 00:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 00:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 00:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 00:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 00:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 00:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 00:50	480-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/08/17 00:50	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 00:50	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-7D Lab ID: 92365305009 Collected: 11/30/17 12:05 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 01:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 01:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 01:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 01:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 01:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 01:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 01:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 01:06	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 01:06	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 01:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 01:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 01:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 01:06	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 01:06	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 01:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 01:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 01:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/08/17 01:06	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/08/17 01:06	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/17 01:06	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839

Pace Project No.: 92365305

Sample: MW-8      Lab ID: 92365305010      Collected: 11/30/17 13:30      Received: 12/01/17 14:39      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	472	ug/L	100	76.8	1		12/08/17 01:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 01:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 01:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 01:22	624-95-3	
tert-Butyl Alcohol	156	ug/L	100	57.7	1		12/08/17 01:22	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 01:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 01:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 01:22	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 01:22	64-17-5	L1
Ethylbenzene	4.3J	ug/L	5.0	1.6	1		12/08/17 01:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 01:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 01:22	1634-04-4	
Naphthalene	6.8	ug/L	5.0	2.0	1		12/08/17 01:22	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 01:22	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 01:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 01:22	179801-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 01:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/17 01:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/08/17 01:22	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/08/17 01:22	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-9 Lab ID: 92365305011 Collected: 11/30/17 13:40 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	735	ug/L	100	76.8	1		12/08/17 01:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 01:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 01:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 01:38	624-95-3	
tert-Butyl Alcohol	446	ug/L	100	57.7	1		12/08/17 01:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 01:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 01:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 01:38	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 01:38	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 01:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 01:38	637-92-3	
Methyl-tert-butyl ether	16.8	ug/L	5.0	1.7	1		12/08/17 01:38	1634-04-4	
Naphthalene	16.9	ug/L	5.0	2.0	1		12/08/17 01:38	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 01:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 01:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 01:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 01:38	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/08/17 01:38	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/08/17 01:38	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		12/08/17 01:38	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-10      Lab ID: 92365305012      Collected: 11/30/17 12:30      Received: 12/01/17 14:39      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 01:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 01:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 01:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 01:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 01:54	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 01:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 01:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 01:54	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 01:54	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 01:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 01:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 01:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 01:54	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 01:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 01:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 01:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 01:54	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 01:54	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/08/17 01:54	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 01:54	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-11 Lab ID: 92365305013 Collected: 11/30/17 13:20 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 02:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 02:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 02:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 02:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 02:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 02:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 02:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:10	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 02:10	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 02:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 02:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 02:10	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 02:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 02:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 02:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 02:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/08/17 02:10	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/17 02:10	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839

Pace Project No.: 92365305

Sample: MW-13 Lab ID: 92365305014 Collected: 11/30/17 12:25 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 02:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 02:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 02:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 02:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 02:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 02:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 02:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:26	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 02:26	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 02:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 02:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 02:26	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 02:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 02:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 02:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 02:26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/08/17 02:26	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/08/17 02:26	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/17 02:26	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839

Pace Project No.: 92365305

Sample: MW-14 Lab ID: 92365305015 Collected: 11/30/17 11:25 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 02:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 02:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 02:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 02:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 02:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 02:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 02:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:42	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 02:42	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 02:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 02:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 02:42	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 02:42	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 02:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 02:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 02:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 02:42	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/08/17 02:42	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/08/17 02:42	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839

Pace Project No.: 92365305

Sample: MW-14D Lab ID: 92365305016 Collected: 11/30/17 11:30 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 02:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 02:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 02:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 02:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 02:58	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 02:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 02:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:58	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 02:58	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 02:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 02:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 02:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 02:58	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 02:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 02:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 02:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 02:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/08/17 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/08/17 02:58	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 02:58	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Bumette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-15 Lab ID: 92365305017 Collected: 11/30/17 10:40 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 03:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 03:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 03:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 03:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 03:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 03:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 03:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 03:14	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 03:14	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 03:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 03:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 03:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 03:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 03:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 03:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 03:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 03:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/08/17 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/08/17 03:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/08/17 03:14	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92385305

Sample: MW-16 Lab ID: 92385305018 Collected: 11/30/17 10:55 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 03:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 03:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 03:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 03:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 03:30	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 03:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 03:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 03:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 03:30	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 03:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 03:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 03:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 03:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 03:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 03:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 03:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 03:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 03:30	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		12/08/17 03:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 03:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-17      Lab ID: 92365305019      Collected: 11/30/17 11:30      Received: 12/01/17 14:39      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 03:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 03:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 03:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 03:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 03:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 03:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 03:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 03:46	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 03:46	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 03:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 03:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 03:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 03:46	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 03:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 03:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 03:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 03:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 03:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/08/17 03:46	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 03:46	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-17D Lab ID: 92365305020 Collected: 11/30/17 11:35 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 04:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 04:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 04:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 04:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 04:02	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 04:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 04:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:02	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 04:02	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 04:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 04:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 04:02	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 04:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 04:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 04:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 04:02	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/08/17 04:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/08/17 04:02	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/17 04:02	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-18 Lab ID: 92365305021 Collected: 11/30/17 10:55 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 04:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 04:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 04:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 04:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 04:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 04:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 04:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:18	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 04:18	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 04:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 04:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 04:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 04:18	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 04:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 04:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 04:18	95-47-8	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 04:18	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/08/17 04:18	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/17 04:18	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-19 Lab ID: 92365305022 Collected: 11/30/17 12:10 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 04:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 04:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 04:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 04:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 04:34	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 04:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 04:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:34	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 04:34	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 04:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 04:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 04:34	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 04:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 04:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 04:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 04:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/08/17 04:34	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/08/17 04:34	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/08/17 04:34	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-19D Lab ID: 92365305023 Collected: 11/30/17 12:15 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 04:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 04:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 04:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 04:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 04:50	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 04:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 04:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 04:50	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 04:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 04:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 04:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 04:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 04:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 04:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 04:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 04:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/08/17 04:50	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/08/17 04:50	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 04:50	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: MW-20 Lab ID: 92365305024 Collected: 11/30/17 10:40 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 05:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 05:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 05:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 05:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 05:22	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 05:22	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 05:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 05:22	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 05:22	64-17-5	L1,M0
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 05:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 05:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 05:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 05:22	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 05:22	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 05:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 05:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 05:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/08/17 05:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		12/08/17 05:22	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 05:22	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: SW-1 Lab ID: 92365305025 Collected: 11/30/17 11:15 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/07/17 17:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/07/17 17:39	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/07/17 17:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/07/17 17:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/07/17 17:39	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/07/17 17:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/07/17 17:39	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/07/17 17:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/07/17 17:39	64-17-5	L1
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/07/17 17:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/07/17 17:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/07/17 17:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/07/17 17:39	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/07/17 17:39	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/07/17 17:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/07/17 17:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/07/17 17:39	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/07/17 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/07/17 17:39	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/07/17 17:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: SW-2 Lab ID: 92365305026 Collected: 11/30/17 11:10 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/07/17 17:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/07/17 17:55	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/07/17 17:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/07/17 17:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/07/17 17:55	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/07/17 17:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/07/17 17:55	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/07/17 17:55	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/07/17 17:55	64-17-5	L1
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/07/17 17:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/07/17 17:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/07/17 17:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/07/17 17:55	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/07/17 17:55	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/07/17 17:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/07/17 17:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/07/17 17:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/07/17 17:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/07/17 17:55	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/07/17 17:55	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: SW-3 Lab ID: 92365305027 Collected: 11/30/17 10:52 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/07/17 18:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/07/17 18:11	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/07/17 18:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/07/17 18:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/07/17 18:11	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/07/17 18:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/07/17 18:11	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/07/17 18:11	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/07/17 18:11	64-17-5	L1
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/07/17 18:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/07/17 18:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/07/17 18:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/07/17 18:11	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/07/17 18:11	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/07/17 18:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/07/17 18:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/07/17 18:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/07/17 18:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/07/17 18:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/07/17 18:11	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: SW-4 Lab ID: 92365305028 Collected: 11/30/17 11:03 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/08/17 11:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/08/17 11:44	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/08/17 11:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/08/17 11:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/08/17 11:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/08/17 11:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/08/17 11:44	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/08/17 11:44	108-20-3	
Ethanol	174J	ug/L	200	131	1		12/08/17 11:44	64-17-5	L1
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/08/17 11:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/08/17 11:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/08/17 11:44	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/08/17 11:44	91-20-3	
Toluene	0.61J	ug/L	1.0	0.26	1		12/08/17 11:44	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/08/17 11:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/08/17 11:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/08/17 11:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/08/17 11:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/08/17 11:44	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/08/17 11:44	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: SW-5 Lab ID: 92365305029 Collected: 11/30/17 10:57 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/07/17 18:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/07/17 18:43	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/07/17 18:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/07/17 18:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/07/17 18:43	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/07/17 18:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		12/07/17 18:43	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/07/17 18:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/07/17 18:43	64-17-5	L1
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/07/17 18:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/07/17 18:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/07/17 18:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/07/17 18:43	91-20-3	
Toluene	0.81J	ug/L	1.0	0.26	1		12/07/17 18:43	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		12/07/17 18:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/07/17 18:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/07/17 18:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/07/17 18:43	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		12/07/17 18:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/07/17 18:43	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: Dup 1 Lab ID: 92365305030 Collected: 11/30/17 12:00 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 15:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 15:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 15:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 15:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 15:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 15:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 15:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 15:45	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 15:45	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 15:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 15:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 15:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 15:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 15:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 15:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 15:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 15:45	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/08/17 15:45	480-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/08/17 15:45	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/08/17 15:45	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839

Pace Project No.: 92365305

Sample: Dup 2      Lab ID: 92365305031      Collected: 11/30/17 13:15      Received: 12/01/17 14:39      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		12/08/17 09:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	340	100		12/08/17 09:13	994-05-8	
Benzene	2140	ug/L	500	170	100		12/08/17 09:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		12/08/17 09:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		12/08/17 09:13	75-85-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		12/08/17 09:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		12/08/17 09:13	107-06-2	
Diisopropyl ether	ND	ug/L	500	170	100		12/08/17 09:13	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		12/08/17 09:13	64-17-5	
Ethylbenzene	1620	ug/L	500	160	100		12/08/17 09:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		12/08/17 09:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	170	100		12/08/17 09:13	1634-04-4	
Naphthalene	630	ug/L	500	200	100		12/08/17 09:13	91-20-3	
Toluene	18900	ug/L	500	160	100		12/08/17 09:13	108-88-3	
Xylene (Total)	10800	ug/L	500	500	100		12/08/17 09:13	1330-20-7	
m&p-Xylene	7540	ug/L	1000	310	100		12/08/17 09:13	179601-23-1	
o-Xylene	3270	ug/L	500	160	100		12/08/17 09:13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		100		12/08/17 09:13	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		100		12/08/17 09:13	17060-07-0	
Toluene-d8 (S)	101	%	70-130		100		12/08/17 09:13	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: Field Blank Lab ID: 92365305032 Collected: 11/30/17 13:55 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 08:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 08:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 08:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 08:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 08:56	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 08:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 08:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 08:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 08:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 08:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 08:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 08:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 08:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 08:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 08:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 08:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 08:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/17 08:56	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/08/17 08:56	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/08/17 08:56	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Sample: Trip Blank Lab ID: 92365305033 Collected: 11/30/17 13:57 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		12/08/17 08:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		12/08/17 08:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		12/08/17 08:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		12/08/17 08:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/08/17 08:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		12/08/17 08:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/08/17 08:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/08/17 08:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 08:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/08/17 08:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		12/08/17 08:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/08/17 08:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/08/17 08:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		12/08/17 08:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		12/08/17 08:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/08/17 08:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/08/17 08:39	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/08/17 08:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		12/08/17 08:39	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/08/17 08:39	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

QC Batch: 389787 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92365305025, 92365305026, 92365305027, 92365305029

METHOD BLANK: 2162393 Matrix: Water  
 Associated Lab Samples: 92365305025, 92365305026, 92365305027, 92365305029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	12/07/17 11:16	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	12/07/17 11:16	
Benzene	ug/L	ND	1.0	0.25	12/07/17 11:16	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/07/17 11:16	
Ethanol	ug/L	ND	200	131	12/07/17 11:16	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	12/07/17 11:16	
Ethylbenzene	ug/L	ND	1.0	0.30	12/07/17 11:16	
m&p-Xylene	ug/L	ND	2.0	0.66	12/07/17 11:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/07/17 11:16	
Naphthalene	ug/L	ND	1.0	0.24	12/07/17 11:16	
o-Xylene	ug/L	ND	1.0	0.23	12/07/17 11:16	
tert-Amyl Alcohol	ug/L	ND	100	50.0	12/07/17 11:16	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	12/07/17 11:16	
tert-Butyl Alcohol	ug/L	ND	100	3.6	12/07/17 11:16	
tert-Butyl Formate	ug/L	ND	50.0	1.9	12/07/17 11:16	
Toluene	ug/L	ND	1.0	0.26	12/07/17 11:16	
Xylene (Total)	ug/L	ND	1.0	1.0	12/07/17 11:16	
1,2-Dichloroethane-d4 (S)	%	100	70-130		12/07/17 11:16	
4-Bromofluorobenzene (S)	%	101	70-130		12/07/17 11:16	
Toluene-d8 (S)	%	100	70-130		12/07/17 11:16	

LABORATORY CONTROL SAMPLE: 2162394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.3	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1160	116	70-130	
Benzene	ug/L	50	45.0	90	70-130	
Diisopropyl ether	ug/L	50	48.3	97	70-130	
Ethanol	ug/L	2000	3150	157	70-130 L1	
Ethyl-tert-butyl ether	ug/L	100	91.3	91	70-130	
Ethylbenzene	ug/L	50	45.1	90	70-130	
m&p-Xylene	ug/L	100	90.6	91	70-130	
Methyl-tert-butyl ether	ug/L	50	43.9	88	70-130	
Naphthalene	ug/L	50	47.2	94	70-130	
o-Xylene	ug/L	50	45.7	91	70-130	
tert-Amyl Alcohol	ug/L	1000	1240	124	70-130	
tert-Amylmethyl ether	ug/L	100	94.1	94	70-130	
tert-Butyl Alcohol	ug/L	500	668	134	70-130 L1	
tert-Butyl Formate	ug/L	400	370	92	70-130	
Toluene	ug/L	50	44.3	89	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365305

LABORATORY CONTROL SAMPLE: 2162394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	136	91	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162940 2162941

Parameter	Units	2162940		2162941		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92365084001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1,2-Dichloroethane	ug/L	ND	500	500	492	515	98	103	70-130	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	10000	10000	11400	12600	114	126	70-130	10	30	
Benzene	ug/L	3390	500	500	3800	3970	83	117	70-130	4	30	
Diisopropyl ether	ug/L	5.2J	500	500	526	559	104	111	70-130	6	30	
Ethanol	ug/L	ND	20000	20000	23100	35500	116	177	70-130	42	30	M0, R1
Ethyl-tert-butyl ether	ug/L	ND	1000	1000	1010	1040	101	104	70-130	3	30	
Ethylbenzene	ug/L	3680	500	500	4140	4220	93	108	70-130	2	30	
m&p-Xylene	ug/L	3750	1000	1000	4670	4790	92	104	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	500	500	491	504	98	101	70-130	3	30	
Naphthalene	ug/L	381	500	500	895	956	103	115	70-130	7	30	
o-Xylene	ug/L	1210	500	500	1700	1740	97	105	70-130	2	30	
tert-Amyl Alcohol	ug/L	3120	10000	10000	15800	16800	126	136	70-130	6	30	M1
tert-Amylmethyl ether	ug/L	ND	1000	1000	1020	1080	102	108	70-130	6	30	
tert-Butyl Alcohol	ug/L	ND	5000	5000	6550	7280	131	145	70-130	11	30	M0
tert-Butyl Formate	ug/L	ND	4000	4000	3880	3940	97	98	70-130	2	30	
Toluene	ug/L	3570	500	500	4000	4180	86	123	70-130	5	30	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

QC Batch: 390045 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92365305028

METHOD BLANK: 2164054 Matrix: Water  
 Associated Lab Samples: 92365305028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	12/08/17 11:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	12/08/17 11:13	
Benzene	ug/L	ND	1.0	0.25	12/08/17 11:13	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/08/17 11:13	
Ethanol	ug/L	ND	200	131	12/08/17 11:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	12/08/17 11:13	
Ethylbenzene	ug/L	ND	1.0	0.30	12/08/17 11:13	
m&p-Xylene	ug/L	ND	2.0	0.66	12/08/17 11:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	12/08/17 11:13	
Naphthalene	ug/L	ND	1.0	0.24	12/08/17 11:13	
o-Xylene	ug/L	ND	1.0	0.23	12/08/17 11:13	
tert-Amyl Alcohol	ug/L	ND	100	50.0	12/08/17 11:13	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	12/08/17 11:13	
tert-Butyl Alcohol	ug/L	ND	100	3.6	12/08/17 11:13	
tert-Butyl Formate	ug/L	ND	50.0	1.9	12/08/17 11:13	
Toluene	ug/L	ND	1.0	0.26	12/08/17 11:13	
Xylene (Total)	ug/L	ND	1.0	1.0	12/08/17 11:13	
1,2-Dichloroethane-d4 (S)	%	99	70-130		12/08/17 11:13	
4-Bromofluorobenzene (S)	%	103	70-130		12/08/17 11:13	
Toluene-d8 (S)	%	99	70-130		12/08/17 11:13	

LABORATORY CONTROL SAMPLE: 2164055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.6	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	46.7	93	70-130	
Diisopropyl ether	ug/L	50	48.8	98	70-130	
Ethanol	ug/L	2000	2840	142	70-130 L1	
Ethyl-tert-butyl ether	ug/L	100	91.3	91	70-130	
Ethylbenzene	ug/L	50	47.2	94	70-130	
m&p-Xylene	ug/L	100	94.3	94	70-130	
Methyl-tert-butyl ether	ug/L	50	44.6	89	70-130	
Naphthalene	ug/L	50	48.1	96	70-130	
o-Xylene	ug/L	50	47.9	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1180	118	70-130	
tert-Amylmethyl ether	ug/L	100	97.1	97	70-130	
tert-Butyl Alcohol	ug/L	500	618	124	70-130	
tert-Butyl Formate	ug/L	400	376	94	70-130	
Toluene	ug/L	50	46.0	92	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

LABORATORY CONTROL SAMPLE: 2164055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2164057

Parameter	Units	92365084009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	100	99.6	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2280	114	70-130	
Benzene	ug/L	1.6J	100	106	105	70-130	
Diisopropyl ether	ug/L	29.2	100	133	104	70-130	
Ethanol	ug/L	ND	4000	3890	97	70-130	
Ethyl-tert-butyl ether	ug/L	ND	200	196	98	70-130	
Ethylbenzene	ug/L	ND	100	106	105	70-130	
m&p-Xylene	ug/L	ND	200	215	107	70-130	
Methyl-tert-butyl ether	ug/L	1140	100	1240	96	70-130 E	
Naphthalene	ug/L	ND	100	90.5	90	70-130	
o-Xylene	ug/L	ND	100	107	107	70-130	
tert-Amyl Alcohol	ug/L	ND	2000	2520	119	70-130	
tert-Amylmethyl ether	ug/L	22.2J	200	229	103	70-130	
tert-Butyl Alcohol	ug/L	29.3J	1000	1390	136	70-130 M1	
tert-Butyl Formate	ug/L	ND	800	586	73	70-130	
Toluene	ug/L	1.4J	100	102	100	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2164056

Parameter	Units	92365084007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	25.0	26.6	6	30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	1050	1070	2	30 E	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	20.5J	20.9J		30	

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

SAMPLE DUPLICATE: 2164056

Parameter	Units	92365084007 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	40.9J	54.4J			30
tert-Butyl Formate	ug/L	ND	ND			30
Toluene	ug/L	ND	ND			30
Xylene (Total)	ug/L	ND	ND			30
1,2-Dichloroethane-d4 (S)	%	99	101	2		
4-Bromofluorobenzene (S)	%	104	101	3		
Toluene-d8 (S)	%	98	99	1		

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

QC Batch: 389946 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92365305005, 92365305006, 92365305008, 92365305009, 92365305010, 92365305011, 92365305012,  
 92365305013, 92365305014, 92365305015, 92365305016, 92365305017, 92365305018, 92365305019,  
 92365305020, 92365305021, 92365305022, 92365305023, 92365305024

METHOD BLANK: 2163576 Matrix: Water  
 Associated Lab Samples: 92365305005, 92365305006, 92365305008, 92365305009, 92365305010, 92365305011, 92365305012,  
 92365305013, 92365305014, 92365305015, 92365305016, 92365305017, 92365305018, 92365305019,  
 92365305020, 92365305021, 92365305022, 92365305023, 92365305024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/07/17 23:46	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	12/07/17 23:46	
Benzene	ug/L	ND	5.0	1.7	12/07/17 23:46	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/07/17 23:46	
Ethanol	ug/L	ND	200	131	12/07/17 23:46	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	12/07/17 23:46	
Ethylbenzene	ug/L	ND	5.0	1.6	12/07/17 23:46	
m&p-Xylene	ug/L	ND	10.0	3.1	12/07/17 23:46	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/07/17 23:46	
Naphthalene	ug/L	ND	5.0	2.0	12/07/17 23:46	
o-Xylene	ug/L	ND	5.0	1.6	12/07/17 23:46	
tert-Amyl Alcohol	ug/L	ND	100	76.8	12/07/17 23:46	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	12/07/17 23:46	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/07/17 23:46	
tert-Butyl Formate	ug/L	ND	50.0	7.3	12/07/17 23:46	
Toluene	ug/L	ND	5.0	1.6	12/07/17 23:46	
Xylene (Total)	ug/L	ND	5.0	5.0	12/07/17 23:46	
1,2-Dichloroethane-d4 (S)	%	103	70-130		12/07/17 23:46	
4-Bromofluorobenzene (S)	%	101	70-130		12/07/17 23:46	
Toluene-d8 (S)	%	99	70-130		12/07/17 23:46	

LABORATORY CONTROL SAMPLE: 2163577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.2	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Diisopropyl ether	ug/L	50	51.1	102	70-130	
Ethanol	ug/L	2000	2640	132	70-130 L1	
Ethyl-tert-butyl ether	ug/L	100	94.1	94	70-130	
Ethylbenzene	ug/L	50	47.1	94	70-130	
m&p-Xylene	ug/L	100	95.2	95	70-130	
Methyl-tert-butyl ether	ug/L	50	48.5	97	70-130	
Naphthalene	ug/L	50	46.0	92	70-130	
o-Xylene	ug/L	50	47.9	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1100	110	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

LABORATORY CONTROL SAMPLE: 2163577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amylmethyl ether	ug/L	100	99.9	100	70-130	
tert-Butyl Alcohol	ug/L	500	812	122	70-130	
tert-Butyl Formate	ug/L	400	378	95	70-130	
Toluene	ug/L	50	47.2	94	70-130	
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2163579

Parameter	Units	92365305024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.2	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	463	116	70-130	
Benzene	ug/L	ND	20	20.9	104	70-130	
Diisopropyl ether	ug/L	ND	20	21.7	108	70-130	
Ethanol	ug/L	ND	800	1100	137	70-130	M0
Ethyl-tert-butyl ether	ug/L	ND	40	39.8	99	70-130	
Ethylbenzene	ug/L	ND	20	21.4	107	70-130	
m&p-Xylene	ug/L	ND	40	42.5	106	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.7	103	70-130	
Naphthalene	ug/L	ND	20	21.1	106	70-130	
o-Xylene	ug/L	ND	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	ND	400	476	119	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.6	104	70-130	
tert-Butyl Alcohol	ug/L	ND	200	357	178	70-130	M1
tert-Butyl Formate	ug/L	ND	180	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	20.3	101	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2163578

Parameter	Units	92365305023 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

SAMPLE DUPLICATE: 2163578

Parameter	Units	92365305023 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	105	0		
4-Bromofluorobenzene (S)	%	102	101	1		
Toluene-d8 (S)	%	99	99	1		

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

QC Batch: 390003 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92365305003, 92365305004, 92365305031, 92365305032, 92365305033

METHOD BLANK: 2163796 Matrix: Water  
 Associated Lab Samples: 92365305003, 92365305004, 92365305031, 92365305032, 92365305033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/08/17 01:51	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	12/08/17 01:51	
Benzene	ug/L	ND	5.0	1.7	12/08/17 01:51	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/08/17 01:51	
Ethanol	ug/L	ND	200	131	12/08/17 01:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	12/08/17 01:51	
Ethylbenzene	ug/L	ND	5.0	1.6	12/08/17 01:51	
m&p-Xylene	ug/L	ND	10.0	3.1	12/08/17 01:51	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/08/17 01:51	
Naphthalene	ug/L	ND	5.0	2.0	12/08/17 01:51	
o-Xylene	ug/L	ND	5.0	1.6	12/08/17 01:51	
tert-Amyl Alcohol	ug/L	ND	100	76.8	12/08/17 01:51	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	12/08/17 01:51	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/08/17 01:51	
tert-Butyl Formate	ug/L	ND	50.0	7.3	12/08/17 01:51	
Toluene	ug/L	ND	5.0	1.6	12/08/17 01:51	
Xylene (Total)	ug/L	ND	5.0	5.0	12/08/17 01:51	
1,2-Dichloroethane-d4 (S)	%	100	70-130		12/08/17 01:51	
4-Bromofluorobenzene (S)	%	97	70-130		12/08/17 01:51	
Toluene-d8 (S)	%	116	70-130		12/08/17 01:51	

LABORATORY CONTROL SAMPLE: 2163797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.6	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	924	92	70-130	
Benzene	ug/L	50	49.2	98	70-130	
Diisopropyl ether	ug/L	50	59.3	119	70-130	
Ethanol	ug/L	2000	2300	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	114	114	70-130	
Ethylbenzene	ug/L	50	49.5	99	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	54.5	109	70-130	
Naphthalene	ug/L	50	51.3	103	70-130	
o-Xylene	ug/L	50	49.8	100	70-130	
tert-Amyl Alcohol	ug/L	1000	928	93	70-130	
tert-Amylmethyl ether	ug/L	100	109	109	70-130	
tert-Butyl Alcohol	ug/L	500	452	90	70-130	
tert-Butyl Formate	ug/L	400	450	112	70-130	
Toluene	ug/L	50	47.2	94	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

LABORATORY CONTROL SAMPLE: 2163797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2164324 2164325

Parameter	Units	2164324		2164325		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				RPD	RPD		
1,2-Dichloroethane	ug/L	ND	20	20	20.1	20.9	100	104	70-130	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	448	445	112	111	70-130	1	30	
Benzene	ug/L	ND	20	20	21.0	21.3	105	106	70-130	1	30	
Diisopropyl ether	ug/L	ND	20	20	21.3	21.8	106	109	70-130	3	30	
Ethanol	ug/L	ND	800	800	917	973	115	122	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	39.7	40.8	99	102	70-130	3	30	
Ethylbenzene	ug/L	ND	20	20	21.2	21.4	106	107	70-130	1	30	
m&p-Xylene	ug/L	ND	40	40	42.5	43.7	106	109	70-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.6	20.1	98	100	70-130	3	30	
Naphthalene	ug/L	ND	20	20	20.2	20.8	101	104	70-130	3	30	
o-Xylene	ug/L	ND	20	20	21.1	21.4	105	107	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	400	400	466	461	116	115	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	40	40	41.1	42.8	103	107	70-130	4	30	
tert-Butyl Alcohol	ug/L	ND	200	200	299	305	150	153	70-130	2	30	M1
tert-Butyl Formate	ug/L	ND	160	160	77.9	56.0	49	35	70-130	33	30	M1,P5, R1
Toluene	ug/L	ND	20	20	20.2	20.4	101	102	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						104	94	70-130			
4-Bromofluorobenzene (S)	%						102	100	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

QC Batch: 390065 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92365305001, 92365305002, 92365305007, 92365305030

METHOD BLANK: 2164280 Matrix: Water  
 Associated Lab Samples: 92365305001, 92365305002, 92365305007, 92365305030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/08/17 11:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	12/08/17 11:13	
Benzene	ug/L	ND	5.0	1.7	12/08/17 11:13	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/08/17 11:13	
Ethanol	ug/L	ND	200	131	12/08/17 11:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	12/08/17 11:13	
Ethylbenzene	ug/L	ND	5.0	1.6	12/08/17 11:13	
m&p-Xylene	ug/L	ND	10.0	3.1	12/08/17 11:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/08/17 11:13	
Naphthalene	ug/L	ND	5.0	2.0	12/08/17 11:13	
o-Xylene	ug/L	ND	5.0	1.6	12/08/17 11:13	
tert-Amyl Alcohol	ug/L	ND	100	76.8	12/08/17 11:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	12/08/17 11:13	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/08/17 11:13	
tert-Butyl Formate	ug/L	ND	50.0	7.3	12/08/17 11:13	
Toluene	ug/L	ND	5.0	1.6	12/08/17 11:13	
Xylene (Total)	ug/L	ND	5.0	5.0	12/08/17 11:13	
1,2-Dichloroethane-d4 (S)	%	99	70-130		12/08/17 11:13	
4-Bromofluorobenzene (S)	%	103	70-130		12/08/17 11:13	
Toluene-d8 (S)	%	99	70-130		12/08/17 11:13	

LABORATORY CONTROL SAMPLE: 2164281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.6	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	46.7	93	70-130	
Diisopropyl ether	ug/L	50	48.8	98	70-130	
Ethanol	ug/L	2000	2840	142	70-130 L1	
Ethyl-tert-butyl ether	ug/L	100	91.3	91	70-130	
Ethylbenzene	ug/L	50	47.2	94	70-130	
m&p-Xylene	ug/L	100	94.3	94	70-130	
Methyl-tert-butyl ether	ug/L	50	44.6	89	70-130	
Naphthalene	ug/L	50	48.1	96	70-130	
o-Xylene	ug/L	50	47.9	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1180	118	70-130	
tert-Amylmethyl ether	ug/L	100	97.1	97	70-130	
tert-Butyl Alcohol	ug/L	500	618	124	70-130	
tert-Butyl Formate	ug/L	400	376	94	70-130	
Toluene	ug/L	50	46.0	92	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

LABORATORY CONTROL SAMPLE: 2164281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2164282 2164283

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92365083009 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2-Dichloroethane	ug/L	ND	500	500	521	543	104	109	70-130	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	10000	10000	11700	12200	117	122	70-130	4	30	
Benzene	ug/L	ND	500	500	555	561	107	108	70-130	1	30	
Diisopropyl ether	ug/L	ND	500	500	553	558	111	112	70-130	1	30	
Ethanol	ug/L	ND	20000	20000	24100	31700	120	159	70-130	27	30	M0
Ethyl-tert-butyl ether	ug/L	ND	1000	1000	1050	1060	105	106	70-130	1	30	
Ethylbenzene	ug/L	2390	500	500	2800	2760	81	73	70-130	1	30	
m&p-Xylene	ug/L	1990	1000	1000	2980	2960	98	96	70-130	1	30	
Methyl-tert-butyl ether	ug/L	ND	500	500	503	523	101	105	70-130	4	30	
Naphthalene	ug/L	312	500	500	957	852	129	108	70-130	12	30	
o-Xylene	ug/L	469	500	500	990	989	104	104	70-130	0	30	
tert-Amyl Alcohol	ug/L	ND	10000	10000	12700	12500	127	125	70-130	2	30	
tert-Amylmethyl ether	ug/L	ND	1000	1000	1080	1100	108	110	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	5000	5000	6850	7090	137	141	70-130	3	30	M1
tert-Butyl Formate	ug/L	ND	4000	4000	3990	4110	100	103	70-130	3	30	
Toluene	ug/L	ND	500	500	557	556	105	105	70-130	0	30	
1,2-Dichloroethane-d4 (S)	%						101	99	70-130			
4-Bromofluorobenzene (S)	%						99	104	70-130			
Toluene-d8 (S)	%						101	99	70-130			

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## QUALIFIERS

Project: Burnette's Service 05289/55839  
Pace Project No.: 92385305

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.  
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92365305025	SW-1	EPA 8260	389787		
92365305026	SW-2	EPA 8260	389787		
92365305027	SW-3	EPA 8260	389787		
92365305028	SW-4	EPA 8260	390045		
92365305029	SW-5	EPA 8260	389787		
92365305001	MW-1	EPA 8260	390065		
92365305002	MW-2	EPA 8260	390065		
92365305003	MW-2D	EPA 8260	390003		
92365305004	MW-3	EPA 8260	390003		
92365305005	MW-4	EPA 8260	389946		
92365305006	MW-5	EPA 8260	389946		
92365305007	MW-6	EPA 8260	390065		
92365305008	MW-7	EPA 8260	389946		
92365305009	MW-7D	EPA 8260	389946		
92365305010	MW-8	EPA 8260	389946		
92365305011	MW-9	EPA 8260	389946		
92365305012	MW-10	EPA 8260	389946		
92365305013	MW-11	EPA 8260	389946		
92365305014	MW-13	EPA 8260	389946		
92365305015	MW-14	EPA 8260	389946		
92365305016	MW-14D	EPA 8260	389946		
92365305017	MW-15	EPA 8260	389946		
92365305018	MW-16	EPA 8260	389946		
92365305019	MW-17	EPA 8260	389946		
92365305020	MW-17D	EPA 8260	389946		
92365305021	MW-18	EPA 8260	389946		
92365305022	MW-19	EPA 8260	389946		
92365305023	MW-19D	EPA 8260	389946		
92365305024	MW-20	EPA 8260	389946		
92365305030	Dup 1	EPA 8260	390065		
92365305031	Dup 2	EPA 8260	390003		
92365305032	Field Blank	EPA 8260	390003		
92365305033	Trip Blank	EPA 8260	390003		

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	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: August 4, 2017 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.04	Issuing Authority: Pace Quality Office

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

SCDHEC

Project #

WO#: 92365305



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No    Seals Intact?  Yes  No

Date/Initials Person Examining Contents: NC 12-1-17

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:  IR Gun ID: 1704    Type of Ice:  Wet  Blue  None

Correction Factor: Cooler Temp Corrected (°C): 3.5

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

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

Comments/Sample Discrepancy: \_\_\_\_\_

Lot ID of split containers: \_\_\_\_\_

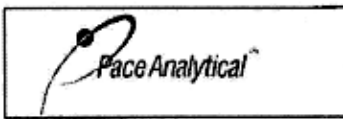
Project Manager SCURF Review: TC

Date: 12/4/17

Project Manager SRF Review: TC

Date: 12/4/17

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



Document Name:  
 Sample Condition Upon Receipt(SCUR)  
 Document No.:  
 F-CAR-CS-033-Rev.04

Document Revised: August 4, 2017  
 Page 2 of 2  
 Issuing Authority:  
 Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

\*\*Bottom half of box is to list number of bottles

Project #

**W0# : 92365305**

PM: RMC

Due Date: 12/08/17

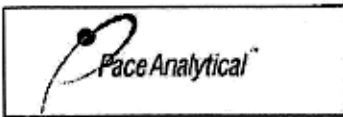
CLIENT : 92-SCDHEC

*pg. 1*

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-)	BP3S-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (p>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFRU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1M-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)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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 #



Document Name:  
**Sample Condition Upon Receipt(SCUR)**  
 Document No.:  
**F-CAR-CS-033-Rev.04**

Document Revised: August 4, 2017  
 Page 2 of 2  
 Issuing Authority:  
 Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

\*\*Bottom half of box is to list number of bottles

Project #

**WO# : 92365305**

PH: RWC

Due Date: 12/08/17

CLIENT: 92-SCDHEC

*Pg. 2*

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-)	BP3M-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1M-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)	AG3A(DG3A)-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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	V5GU-20 mL Scintillation vials (N/A)	GN
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/

**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 #



Document Name:  
**Sample Condition Upon Receipt(SCUR)**  
 Document No.:  
**F-CAR-CS-033-Rev.04**

Document Revised: August 4, 2017  
 Page 2 of 2  
 Issuing Authority:  
 Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

\*\*Bottom half of box is to list number of bottles

Project # **W0# : 92365305**  
 PH: RMC Due Date: 12/08/17  
 CLIENT: 92-SCDHEC

*Pg. 3*

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)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WG7U-Wide-mouthed Glass jar Unpreserved	AG1U-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)	AG3A(DG3A)-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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VD9AK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	V5GU-20 mL Scintillation vials (N/A)	GN
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	W	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3  
2184576

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>SCDHEC-UST</b>		Report To: <b>A. Thrash-UST</b>		Attention:	
Address: <b>2600 Bull Street</b>		Copy To:		Company Name:	
City/State: <b>Columbia, SC 29201</b>		Purchase Order No: <b>4600422513</b>		Address:	
Email To: <b>A.Thrash@dhcc.sc.gov</b>		Project Name: <b>Burnette's Service Station</b>		Pace Quote Reference:	
Phone: <b>803-898-0607</b>		Project Number: <b>UST 05289/PA 53839</b>		Pace Project Manager: <b>T. Carter</b>	
Fax: <b>803-898-0673</b>		Requested Due Date/TAT:		Pace Profile #:	
REGULATORY AGENCY				Site Location	
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER				STATE: <b>SC Jasper</b>	

ITEM #	SAMPLE ID (A-Z, 0-9 / .)	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.	
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na-S <sub>2</sub> O <sub>3</sub>	Methanol					Other
				DATE	TIME	DATE	TIME														
1	MW-1		WTG			11/30/17	13:55	3											Strong odor 001		
2	MW-2						13:00												No odor 002		
3	MW-2D						13:05												No odor 003		
4	MW-3						13:45												Strong odor 004		
5	MW-4						12:40												No odor 005		
6	MW-5						13:00												No odor 006		
7	MW-6						13:15												Odor 007		
8	MW-7						12:00												No odor 008		
9	MW-7D						12:05												No odor 009		
10	MW-8						13:30												Odor 010		
11	MW-9						13:40												Slight odor 011		
12	MW-10		WTG			11/30/17	12:30	3											No odor 012		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>S.E.V. Pace</i>	11/17	8:19	<i>Peter J. Wille</i>	11-17-17	14:35	y r ✓
	<i>J. Thrash Pace</i>	11-17	14:39	<i>Peter J. Wille</i>	11-17	14:35	y r ✓

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Peter J. Wille</i>					
SIGNATURE of SAMPLER: <i>Peter J. Wille</i>					
DATE Signed (MM/DD/YY): 11/30/17					

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



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

Page: 2 of 3  
**2184577**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>	
Company: <b>SDHEC</b>		Report To: <b>A. Thrash-UST</b>		Attention:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Address: <b>2600 Bull St Columbia, SC 29201</b>		Copy To:		Company Name:		Site Location: <b>SC Jasper</b>	
Email To: <b>athrash@medhec.sc.gov</b>		Purchase Order No: <b>4600422513</b>		Pace Quote Reference:		STATE: <b>SC</b>	
Phone: <b>803-998-0607</b>		Project Name: <b>Burnette's Srv. Sta.</b>		Pace Project Manager: <b>T. Carter</b>			
Requested Due Date/TAT:		Project Number: <b>05289/55839</b>		Pace Profile #:			

ITEM #	SAMPLE ID (A-Z, 0-9 / . - ) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil CL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see visit codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test 1 Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>					HCl	NaOH
1	MW-11		WTG			11/30/17	13:20	3					X								No odor 017
2	MW-13						11:25														No odor 014
3	MW-14						11:30														Sulfur odor 015
4	MW-14D						10:40														No odor 016
5	MW-15						10:55														017
6	MW-16						11:30														018
7	MW-17						11:35														019
8	MW-17D						10:55														020
9	MW-18						12:10														021
10	MW-19						12:15														022
11	MW-19D						12:15														023
12	MW-20		WTG			11/30/17	10:40	3					X								No odor 024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	12/1/17	8:19	<i>[Signature]</i>	12-1-17	8:19	
	<i>[Signature]</i>	12-1-17	14:39	<i>[Signature]</i>	12-1-17	14:39	3.5 y n y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *Peter J. Wyke*  
 SIGNATURE of SAMPLER: *[Signature]*      DATE Signed (MM/DD/YY): *11/30/17*

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

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



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <u>3</u> of <u>3</u>	
Company: <u>CDHEC</u> Address: <u>2600 Bull St</u> <u>Columbia, SC 29201</u> Email To: <u>cdasham@dhc.sc.gov</u> Phone: <u>803-878-2607</u> Fax: Requested Due Date/TAT:		Report To: <u>A. Thrasher-UST</u> Copy To: Purchase Order No.: <u>4600427513</u> Project Name: <u>Burnettes Sub. Sta.</u> Project Number: <u>05789/55839</u>		Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: <u>T. Carter</u> Pace Profile #:		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location: <u>SC</u> <u>Jasper</u> STATE:	
2184578							

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		COMPOSITE START DATE	COMPOSITE END/GRAB DATE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)		
					UNPRESERVED	H <sub>2</sub> SO <sub>4</sub>							HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		STX	M	3260B	3260C		3260D	
1	SW-1		DW	G					11/30/17	11:15		3		X												92365305 Pace Project No./ Lab I.D.
2	SW-2									11:10								X	X	X	X				LDLs 025	
3	SW-3									10:52																026
4	SW-4									11:03																027
5	SW-5									10:57																028
6	Dup 1		DW							12:00																LDLs 029
7	Dup 2		DW							13:15																No odor 030
8	Field blank		WT	G						13:55																Odor 031
9	Trip blank		WT	G					11/30/17	13:57		2	X													Field blank 032 Trip blank 033
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
	<i>[Signature]</i>	<i>[Signature]</i>	12/17/17	8:19	<i>[Signature]</i>	<i>[Signature]</i>	12-17	8:19		
	<i>[Signature]</i>	<i>[Signature]</i>	12-17	1439	<i>[Signature]</i>	<i>[Signature]</i>	12-1	1439	35	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Peter J. Velle</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed (MM/DD/YY):	11/30/17				

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





Pace Analytical Services, LLC  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

December 08, 2017

Ashleigh Thrash  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: Burnette's Service 05289/55839  
Pace Project No.: 92365304

Dear Ashleigh Thrash:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, LLC  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

December 08, 2017

Ashleigh Thrash  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: Burnette's Service 05289/55839  
Pace Project No.: 92365304

Dear Ashleigh Thrash:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

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### SAMPLE SUMMARY

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365304

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92365304001	WSW-1	Water	11/30/17 11:22	12/01/17 14:39
92365304002	WSW-3	Water	11/30/17 10:45	12/01/17 14:39
92365304003	WSW-Dup	Water	11/30/17 10:47	12/01/17 14:39
92365304004	WSW Field Blank	Water	11/30/17 11:30	12/01/17 14:39
92365304005	WSW Trip Blank	Water	11/30/17 11:32	12/01/17 14:39

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**SAMPLE ANALYTE COUNT**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92365304001	WSW-1	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92365304002	WSW-3	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92365304003	WSW-Dup	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92365304004	WSW Field Blank	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92365304005	WSW Trip Blank	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

Sample: WSW-1 Lab ID: 92365304001 Collected: 11/30/17 11:22 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2							
Benzene	ND	ug/L	0.50	0.25	1		12/07/17 04:08	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		12/07/17 04:08	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		12/07/17 04:08	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		12/07/17 04:08	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		12/07/17 04:08	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		12/07/17 04:08	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		12/07/17 04:08	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		12/07/17 04:08	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		12/07/17 04:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	126	%	70-130		1		12/07/17 04:08	17060-07-0	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/08/17 00:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/08/17 00:33	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/08/17 00:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/08/17 00:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/08/17 00:33	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/08/17 00:33	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 00:33	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/08/17 00:33	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/08/17 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130		1		12/08/17 00:33	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/08/17 00:33	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

Sample: WSW-3      Lab ID: 92365304002      Collected: 11/30/17 10:45      Received: 12/01/17 14:39      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		12/07/17 04:34	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		12/07/17 04:34	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		12/07/17 04:34	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		12/07/17 04:34	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		12/07/17 04:34	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		12/07/17 04:34	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		12/07/17 04:34	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	87	%	70-130		1		12/07/17 04:34	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		12/07/17 04:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	126	%	70-130		1		12/07/17 04:34	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/08/17 00:50	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/08/17 00:50	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/08/17 00:50	624-95-3	M1
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/08/17 00:50	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/08/17 00:50	762-75-4	M1
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/08/17 00:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 00:50	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/08/17 00:50	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/17 00:50	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		12/08/17 00:50	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		12/08/17 00:50	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

Sample: WSW-Dup Lab ID: 92365304003 Collected: 11/30/17 10:47 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		12/07/17 05:00	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		12/07/17 05:00	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		12/07/17 05:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		12/07/17 05:00	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		12/07/17 05:00	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		12/07/17 05:00	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		12/07/17 05:00	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		12/07/17 05:00	460-00-4	
Toluene-d8 (S)	105	%	70-130		1		12/07/17 05:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	127	%	70-130		1		12/07/17 05:00	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/08/17 01:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/08/17 01:08	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/08/17 01:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/08/17 01:08	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/08/17 01:08	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/08/17 01:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 01:08	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/08/17 01:08	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/08/17 01:08	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		12/08/17 01:08	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		12/08/17 01:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

Sample: WSW Field Blank      Lab ID: 92365304004      Collected: 11/30/17 11:30      Received: 12/01/17 14:39      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		12/07/17 05:26	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		12/07/17 05:26	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		12/07/17 05:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		12/07/17 05:26	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		12/07/17 05:26	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		12/07/17 05:26	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		12/07/17 05:26	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	70-130		1		12/07/17 05:26	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		12/07/17 05:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	128	%	70-130		1		12/07/17 05:26	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/08/17 01:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/08/17 01:25	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/08/17 01:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/08/17 01:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/08/17 01:25	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/08/17 01:25	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 01:25	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/08/17 01:25	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/08/17 01:25	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		12/08/17 01:25	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		12/08/17 01:25	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

Sample: WSW Trip Blank Lab ID: 92365304005 Collected: 11/30/17 11:32 Received: 12/01/17 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		12/07/17 05:52	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		12/07/17 05:52	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		12/07/17 05:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		12/07/17 05:52	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		12/07/17 05:52	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		12/07/17 05:52	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		12/07/17 05:52	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		12/07/17 05:52	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		12/07/17 05:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	125	%	70-130		1		12/07/17 05:52	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/08/17 01:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/08/17 01:43	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/08/17 01:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/08/17 01:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/08/17 01:43	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/08/17 01:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		12/08/17 01:43	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/08/17 01:43	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/08/17 01:43	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		12/08/17 01:43	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		12/08/17 01:43	2037-26-5	

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

QC Batch: 410297 Analysis Method: EPA 524.2  
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
 Associated Lab Samples: 92365304001, 92365304002, 92365304003, 92365304004, 92365304005

METHOD BLANK: 2239229 Matrix: Water  
 Associated Lab Samples: 92365304001, 92365304002, 92365304003, 92365304004, 92365304005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	12/07/17 01:06	
Benzene	ug/L	ND	0.50	0.25	12/07/17 01:06	
Ethylbenzene	ug/L	ND	0.50	0.25	12/07/17 01:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	12/07/17 01:06	
Naphthalene	ug/L	ND	0.50	0.25	12/07/17 01:06	
Toluene	ug/L	ND	0.50	0.25	12/07/17 01:06	
Xylene (Total)	ug/L	ND	0.50	0.25	12/07/17 01:06	
1,2-Dichloroethane-d4 (S)	%	123	70-130		12/07/17 01:06	
4-Bromofluorobenzene (S)	%	89	70-130		12/07/17 01:06	
Toluene-d8 (S)	%	101	70-130		12/07/17 01:06	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 2239230 2239231									
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2-Dichloroethane	ug/L	40	44.5	41.4	111	103	70-130	7	40		
Benzene	ug/L	40	43.3	42.8	108	107	70-130	1	40		
Ethylbenzene	ug/L	40	48.5	48.0	121	120	70-130	1	40		
Methyl-tert-butyl ether	ug/L	40	44.0	44.5	110	111	70-130	1	40		
Naphthalene	ug/L	40	32.0	35.6	80	89	70-130	10	40		
Toluene	ug/L	40	40.4	40.2	101	100	70-130	0	40		
Xylene (Total)	ug/L	120	125	124	104	104	70-130	0	40		
1,2-Dichloroethane-d4 (S)	%				96	88	70-130				
4-Bromofluorobenzene (S)	%				103	105	70-130				
Toluene-d8 (S)	%				105	104	70-130				

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

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

QC Batch: 389930 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92365304001, 92365304002, 92365304003, 92365304004, 92365304005

METHOD BLANK: 2163490 Matrix: Water  
 Associated Lab Samples: 92365304001, 92365304002, 92365304003, 92365304004, 92365304005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	12/07/17 16:46	
Diisopropyl ether	ug/L	ND	1.0	0.12	12/07/17 16:46	
Ethanol	ug/L	ND	200	131	12/07/17 16:46	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	12/07/17 16:46	
tert-Amyl Alcohol	ug/L	ND	100	50.0	12/07/17 16:46	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	12/07/17 16:46	
tert-Butyl Alcohol	ug/L	ND	100	3.6	12/07/17 16:46	
tert-Butyl Formate	ug/L	ND	50.0	1.9	12/07/17 16:46	
1,2-Dichloroethane-d4 (S)	%	83	70-130		12/07/17 16:46	
4-Bromofluorobenzene (S)	%	98	70-130		12/07/17 16:46	
Toluene-d8 (S)	%	108	70-130		12/07/17 16:46	

LABORATORY CONTROL SAMPLE: 2163491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1180	118	70-130	
Diisopropyl ether	ug/L	50	51.3	103	70-130	
Ethanol	ug/L	2000	3500	175	70-130 L1	
Ethyl-tert-butyl ether	ug/L	100	89.2	89	70-130	
tert-Amyl Alcohol	ug/L	1000	1220	122	70-130	
tert-Amylmethyl ether	ug/L	100	99.8	100	70-130	
tert-Butyl Alcohol	ug/L	500	584	117	70-130	
tert-Butyl Formate	ug/L	400	296	74	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 2163493

Parameter	Units	92365304002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	232	58	70-130	M1
Diisopropyl ether	ug/L	ND	20	18.7	94	70-130	
Ethanol	ug/L	ND	800	905	113	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	32.7	82	70-130	
tert-Amyl Alcohol	ug/L	ND	400	248	62	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	30.9	77	70-130	
tert-Butyl Alcohol	ug/L	ND	200	171	85	70-130	
tert-Butyl Formate	ug/L	ND	160	88.4	55	70-130	M1,P5

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Burnette's Service 05289/55839  
 Pace Project No.: 92365304

MATRIX SPIKE SAMPLE: 2163493		92365304002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				88	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2163492		92365304001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	83	81	3		
4-Bromofluorobenzene (S)	%	98	97	1		
Toluene-d8 (S)	%	107	106	1		

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

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365304

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Burnette's Service 05289/55839  
Pace Project No.: 92365304

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92365304001	WSW-1	EPA 524.2	410297		
92365304002	WSW-3	EPA 524.2	410297		
92365304003	WSW-Dup	EPA 524.2	410297		
92365304004	WSW Field Blank	EPA 524.2	410297		
92365304005	WSW Trip Blank	EPA 524.2	410297		
92365304001	WSW-1	EPA 8260	389930		
92365304002	WSW-3	EPA 8260	389930		
92365304003	WSW-Dup	EPA 8260	389930		
92365304004	WSW Field Blank	EPA 8260	389930		
92365304005	WSW Trip Blank	EPA 8260	389930		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: <b>Sample Condition Upon Receipt(SCUR)</b>	Document Revised: August 4, 2017 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.04	Issuing Authority: Pace Quality Office

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: SCURF

Project #:

WO#: **92365304**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 12/1/17

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Thermometer:  IR Gun ID: IN04 Type of Ice:  Wet  Blue  None

Yes  No  N/A

Correction Factor: Cooler Temp Corrected (°C): 1.0

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil  N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes  No

Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WV</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

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

Comments/Sample Discrepancy: \_\_\_\_\_

Lot ID of split containers: \_\_\_\_\_

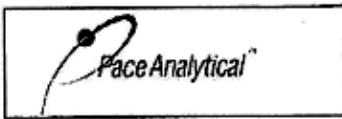
Project Manager SCURF Review: TC

Date: 12/4/17

Project Manager SRF Review: TC

Date: 12/4/17

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



Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: August 4, 2017 Page 2 of 2
Document No.: F-CAR-CS-033-Rev.04	Issuing Authority: Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project # **WO# : 92365304**

PM: RNC Due Date: 12/12/17  
CLIENT: 92-SCHEC

\*\*Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1																6												
2																												
3																6												
4																6												
5																6												
6																6												
7																6												
8																												
9																												
10																												
11																												
12																												

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #





### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <b>CDHEC-UST</b> Address: <b>2600 Bull Street</b> <b>Columbia, SC 29201</b> Email To: <b>thasham@dhec.sc.gov</b> Phone: <b>803-898-0607</b> / <b>803-898-0673</b> Requested Due Date/TAT:		<b>Section B</b> Required Project Information: Report To: <b>A. Thrash-UST</b> Copy To: Purchase Order No.: <b>4600422513</b> Project Name: <b>Public Works Service Station WSWs</b> Project Number: <b>UST 05289/PA 55839</b>		<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: <b>T. Carter</b> Pace Profile #:		Page: _____ of _____ <b>2237085</b>
<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER				Site Location: <b>SC</b> <b>Jasper</b> STATE:		

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes on left)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>					Methanol	Other
				DATE	TIME	DATE	TIME														
1	WSW-1	DWG			11/30/17	11:22	6			X							LDLs 001				
2	WSW-2	DWG			11/30/17	10:45	6			X							LDLs 002				
3	WSW-3	DWG			11/30/17	10:45	6			X							LDLs 002				
4	WSW-4	DWG			11/30/17	10:47	6			X							LDLs 003				
5	WSW-Dup	DWG			11/30/17	11:30	6			X							Field blank 004				
6	WSW Field blank	WTG			11/30/17	11:32	6			X							Field blank 004				
7	WSW Trip blank	WTG			11/30/17	11:32	6			X							Trip blank 005				
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	12/1/17	8:19	<i>[Signature]</i>	12/1/17	8:19	
	<i>[Signature]</i>	12-1-17	14:39	<i>[Signature]</i>	12/1/17	14:39	16 Y N Y

ORIGINAL

<b>SAMPLER NAME AND SIGNATURE</b> PRINT Name of SAMPLER: <b>Peter J. Wylie</b> SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YY): <b>11/30/17</b>	Temp in °C Resealed on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
---	--	---	--

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.8% per month for any invoices not paid within 30 days.



05289

**RONNIE LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151-3050**

MAR 1 2018



**Re: Aggressive Fluid Vapor Recovery (AFVR) Directive**  
Contract #IFB-5400010441-11/24/15: PO #4600539716  
Notice to Proceed

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, Aggressive Fluid Vapor Recovery (AFVR) has been approved for the UST facilities listed below. Emerald, Inc. may proceed upon receipt of this letter. The complete packets containing necessary information for each facility are enclosed. Each facility has been assigned an individual cost agreement (CA) number and work scope.

Permit	Facility	County	Work Scope	CA #
02300	City Service	Chesterfield	One 96-hour AFVR	56143
03539	Sav A Ton 84	Florence	One 96-hour AFVR	56407
05289	Burnettes Service Station	Jasper	One 96-hour AFVR	56477
06033	Pantry	Lexington	One 96-hour AFVR	56415
07704	Pitt Stop 40	Richland	Two 96-hour AFVR	56452
14094	Little Howies	Bamberg	One 96-hour AFVR	56340

AFVR at each facility will be performed in accordance with the referenced contract on behalf of the UST Owner/Operator (O/O). Payment will be made from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval is obtained from the SCDHEC UST Division.

Page 2

Any changes to the work scope must be pre-approved by the UST Management Division in order for Emerald to seek payment. Please contact the UST Project Manager for technical and financial approval of any proposed changes to the work scope.

DHEC grants preapproval for transportation of free-phase product (FPP) and virgin petroleum-contaminated groundwater from the referenced site(s) to a permitted treatment facility(ies). There can be no spillage or leakage in transport. A copy of the disposal manifest(s) from the receiving facility that clearly designates the quantity received must be included as part of the final report.

If you have any questions, please contact me at (803) 898-0608 or by e-mail at [minerrs@dhec.sc.gov](mailto:minerrs@dhec.sc.gov).

Sincerely,



Read S. Miner, P.G., Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreements  
Notice to Proceed Packages

cc: Technical Files (with enclosures)



UNDERGROUND STORAGE TANK MANAGEMENT DIVISION  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

**MEMORANDUM**

TO: Ronny Lowder, Emerald, Inc.

FROM: Kathryn H. Butler

RE: NOTICE TO PROCEED

Facility Name: BURNETTES SERVICE STATION

Permit Number: 05289

County: Jasper

Work to be completed: One 96 Hour AFVR Event with Off-Gas Treatment utilizing MW-6 as the extraction location and a Stinget Depth reaching 12 FT

CA #: 56477

RIGHT OF ENTRY - Site ID # 05289

I, H.A. TORRES, JR, certify that I am the legal owner/authorized representative for H.A. TORRES, JR (owner) of the property at 721 H Hwy 17 RIDGELAND. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

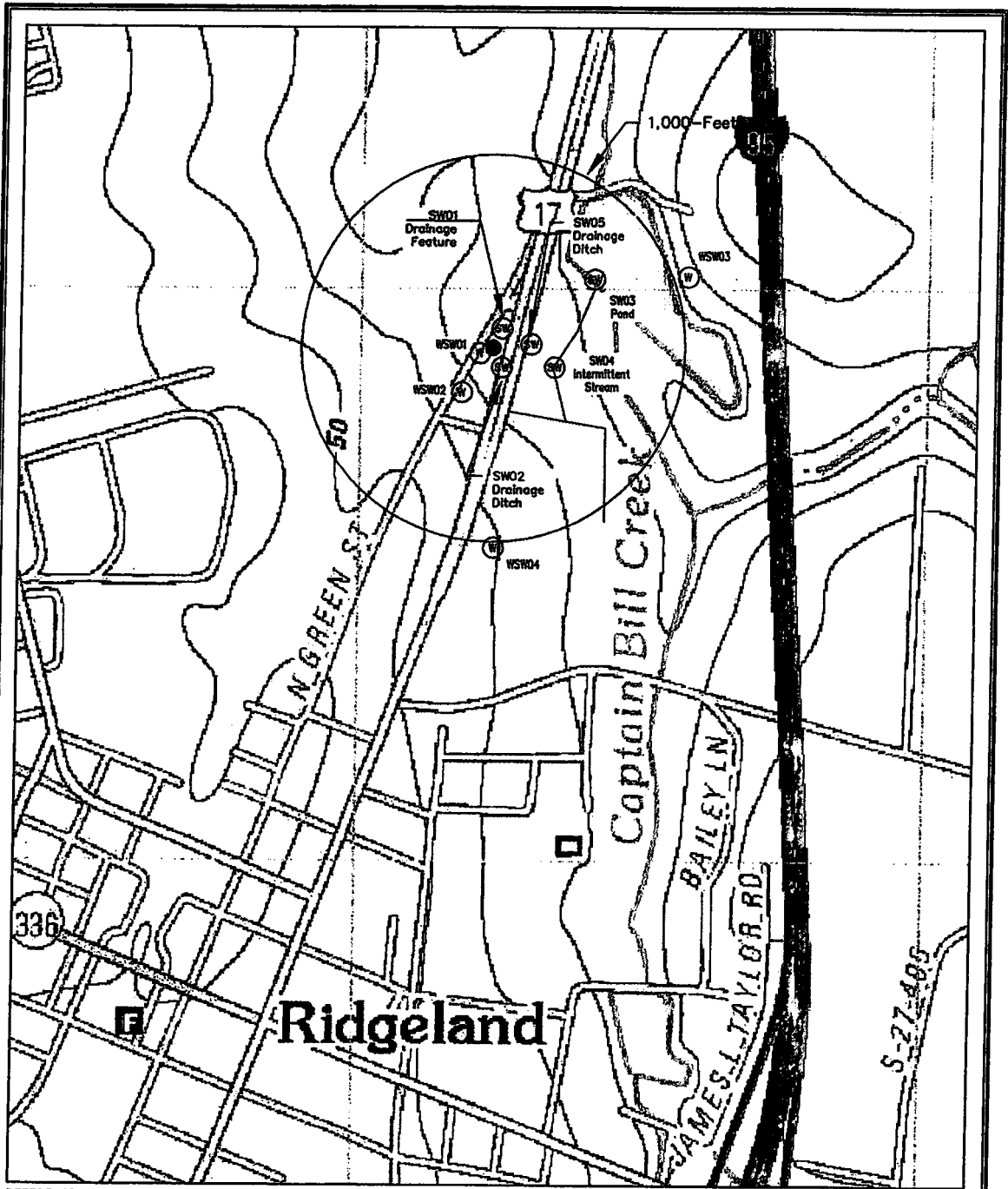
One well will be installed at the referenced facility for the purpose of collecting a ground-water quality sample for analysis. I understand that this well will be a permanent fixture of the property until assessment and/or cleanup activities are completed. I understand that these are necessary measures to determine the degree of risk the contamination reportedly existing at this property poses to the general public. Additionally, I understand that SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please Print) : H.A. TORRES, JR.  
SIGNATURE : H.A. Torres, Jr.  
WITNESS : C. A. Flye  
DATE : MAY Month 16 Day 95 Year

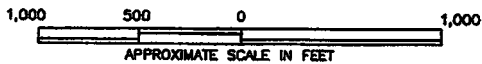
Division  
Groundwater Protection

MAY 22 1995

REC'D



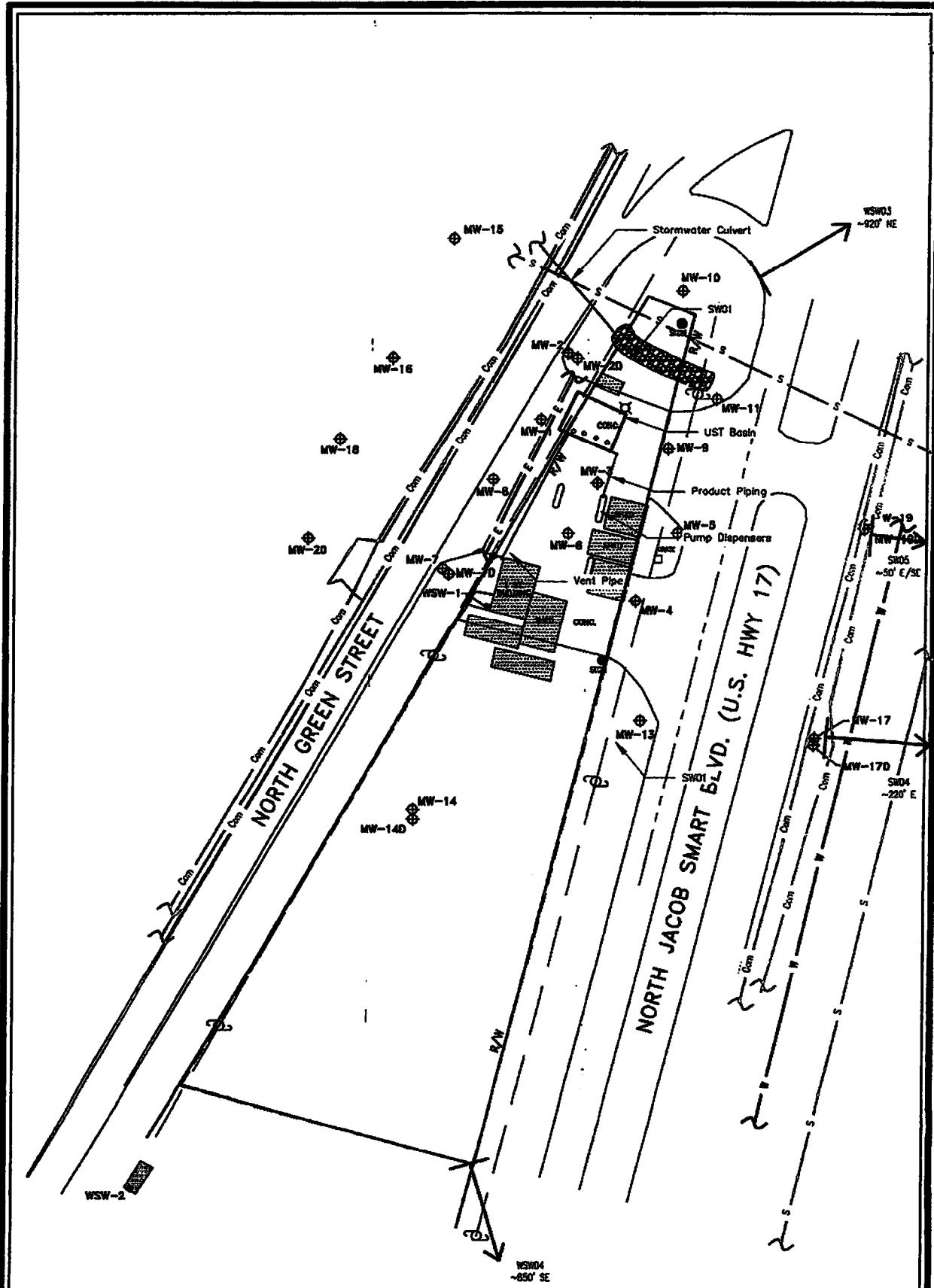
REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ W Private Water Supply Well



Title	Topographic Site Location Map	
Project	Burnette's Service Station (UST Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	09/20/2014	 petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS
REV.	02/24/2015	
Job No.	J14-080-A	
Figure No.	1	



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- Groundwater Monitoring Well
- Approximate Location of Underground Electric Line
- Approximate Location of Underground Communication (Cable/Phone) Line
- Approximate Location of Underground Water Line
- Approximate Location of Underground Gas Line
- Approximate Location of Underground Sewer/Stormwater Line
- Approximate Property Boundary



Title	Site Base Map
Project	Burnette's Service Station (UST Permit #32288) 11577 W. Jesse Smart Boulevard Ridgeway, South Carolina Jasper County
Date	02/25/2015
Job No.	J4-050-A
<b>petra-TECH</b> INDUSTRIAL & ENVIRONMENTAL ENGINEERING & CONSULTANTS	
Figure No.	3

Well ID	Screened Interval
MW-1	2-12
MW-2	3.68-13.68
MW-2D	24.8-29.8
MW-3	3.12-13.12
MW-4	3.59-13.59
MW-5	3.66-13.66
MW-6	3.29-13.29
MW-7	3.75-13.75
MW-7D	27.29-32.29
MW-8	3.45-13.45
MW-9	3.76-13.76
MW-10	3.42-13.42
MW-11	3.65-13.65
MW-13	3.62-13.62
MW-14	3.72-13.72
MW-14D	18.57-23.57
MW-15	3.64-13.64
MW-16	1.85-11.85
MW-17	3.71-13.71
MW-17D	25.31-30.31
MW-18	2.38-12.38
MW-19	3.8-13.8
MW-19D	26.94-31.94
MW-20	3.17-13.17
SW-1	--
SW-2	--
SW-3	--
SW-4	--
SW-5	--
WSW-1	--
WSW-2	--
WSW-3	--
WSW-4	--



**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<u>Bus.</u>	11577 N JACOB SMART BLVD	<u>Phone</u>		<u>District</u>	Beaufort EQC Office
<u>Address</u>	RIDGELAND SC 29936	<u>County</u>	Jasper		
<u>Category</u>	Retail Sales	<u>Last Inspection</u>	09/13/96	<u>Trans. of Ownership</u>	
<u>Tank Owner</u>	BURNETTE, FATE				
<u>Bus.</u>	PO BOX 1908			<u>Financial Responsibility</u>	
<u>Address</u>	RIDGELAND SC 29936-0443	<u>Phone</u>	803-726-5098	<u>Financial Mechanism</u>	<u>Expiration Date</u>
<u>Operator</u>				<u>Training Date</u>	
<u>Bus.</u>					
<u>Address</u>		<u>Phone</u>			
<u>Land Owner</u>					
<u>Bus.</u>					
<u>Address</u>		<u>Phone</u>			
<u>Tanks</u>	4	<u>Billable</u>	0	<u>Aband.</u>	4
				<u>Other</u>	0
		<u>Compliance Operator(s)</u>		<u>ID</u>	

Significant? N Memo Date: 02/24/01

Site Memo: 1-18-94 PER REMITTANCE ON INVOICE SAYS TO MAIL ALL INFO TO LITTLE I T'S GARAGE, P.O. BOX 834, RIDGELAND, SC 29936. PHONE 726-5207. I TRIED TO CALL TWICE LEFT MESSAGE TWICE WILL NOT RETURN CALL. DMO

1-18-94 TC FROM MR. TOREZ OF LITTLE T'S HE PLANS TO PURCHASE I PROPERTY. BUT HAS NOT YET. TOLD HIM TO DO A T OF O WHEN HE I PURCHASES. DMO

4-18-96 Mr. Torres has purchased the property. But, he has not used i the tanks. The matter of the tanks seems to be caught up in the i estate of Mr. Fate C. Burnette, Sr. . I informed Mr. Torres of his i responsibility to either upgrade or abandon the tanks. RBS

11/20/96 Spoke w ith A.G. Solomons, attorney that is handling the i fight over w ho w ill be the executor of the estate. This site is in i a court battle w ith 2 people fighting over estate executor status. i I have extended the due date for removal of the TOU tanks. Mr. i Solomons w ill contact us w hen a decision is made by the court. It i may go through several appeals. BJW

9/17/98: W Well @ 559.35'

Significant? Y Memo Date: 06/21/02

Site Memo: FACILITY WITHIN 559.18 FT OF PLANTATION MOTEL WELL G27125

Significant? Y Memo Date: 07/10/14

Site Memo: SCDOT w ill survey to determine if tank basin is in the ROW since the intersection w as improved.

<u>Rel. No.</u>	1	<u>Reported</u>	12/31/91	<u>Status</u>	Confirmed - Active	<u>Product</u>	Petroleum	<u>Compl Required</u>	N
<u>Active Tnks</u>	NFA	<u>Fin. Type</u>	With SUPERB Cos	<u>RBCA / Score</u>	2AB 535	<u>Compliance Met</u>	Y		

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<u>Confirmed</u>	03/23/92	<u>Emer. Resp.</u>		<u>Superb Qualified</u>	N	<u>Compliance Met Dt</u>	
<u>CU Init.</u>	06/04/14	<u>Abate. Met</u>	11/24/97	<u>Superb Determ. Dt</u>		<u>Fin Res Mechanism</u>	
<u>CU Compl.</u>		<u>Transferred</u>		<u>Project Manager</u>	BUTLER KATHYRN H		
<u>CU &gt; MCL</u>		<u>Source</u>	UST	<u>Responsible Party</u>	BURNETTE SR FATE C		

<u>Ranking</u>	<u>SCRBCA:</u>	2AB - Watersupply wells < 1 yr downgrade					<u>FP Thick:</u>	Unknown
<u>Rel. No.</u>	1							
<u>Analyticals</u>	<u>Contaminant</u>	<u>ug/L</u>	<u>RBSL</u>	<u>Score</u>	<u>SSTL's</u>	<u>Other Contaminants</u>	<u>ug/L</u>	<u>SSTL's</u>
	Benzene	2440	5	488		EDB	.059	
	Toluene	16900	1000	17		LEAD	58	
	Ethylbenzene	1830	700	3		TAA (MW-9)	735	
	Xylene	11100	10000	1		TBA (MW-9)	446	
	Naphthalene	630	25	25				
	MTBE	36.3	40	1				
	<u>Total Score:</u>			535				
<u>Receptor Type:</u>	PRIVATE	<u>Ground Water Flow:</u>	E					
<u>Distance to Receptor:</u>	1	<u>Seepage Velocity:</u>	.42					
<u>GW Depth:</u>	0							

SuperB Check List

Rel. No. 1

Original Qualified Date: 07-MAY-98

Release Reported: 12/31/91

Deductible Group from Release Report Date: No deductible

Y All tanks Registered? Tanks must be registered Before eligible.

Y Fees Paid to date?

Y Contamination requiring Remediation confirmed?

<u>Enviro Company</u>	<u>Deductible</u>	<u>Limit Amount</u>
N		

A written statement of No Insurance dated:

Abatement Met: 11/24/97 Abatement Method: Permanently closed

Approved by: CATHCART ERIC F Approved date: Qualified? N

<u>Tank No.</u>	1	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	

<u>Tank No.</u>	2	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<b>Tank No.</b>	3	<b>Const.</b>	<b>Class</b>	N	<b>Tank Const. Mat.</b>	SL	<b>Pipe Const. Mat.</b>	SL	
		<b>Operate</b>	11/11/11	<b>T Status</b>	ABD	<b>Tank Protect.</b>	CP	<b>Pipe Protect.</b>	CP
		<b>Notify</b>	06/22/87	<b>Capacity</b>	6,000	<b>Tank Cont. Meth.</b>	SW	<b>Pipe Cont. Meth.</b>	SW
		<b>Variance</b>		<b>Product</b>	GN	<b>Overfill Type</b>	Ver	<b>Piping Type</b>	
		<b>Compl.</b>		<b>C Status</b>		<b>Age @ Notif.</b>	10	<b>Dist. to Well</b>	
		<b>Spill Det.</b>		<b>Left Gal.</b>		<b>Owner @ ABD</b>	BURNETTE, FATE	<b>Last Use</b>	
		<b>Aband.</b>	11/11/11	<b>Method</b>	RG	<b>CAS No.</b>	<b>Chem.</b>		
		<b>Under Dispenser Cont.</b>	N	<b>Drop Tube</b>	N	<b>Tank Leak Det.</b>		<b>Pipe Leak Det.</b>	
<b>Tank No.</b>	4	<b>Const.</b>	<b>Class</b>	N	<b>Tank Const. Mat.</b>	SL	<b>Pipe Const. Mat.</b>	SL	
		<b>Operate</b>	11/11/11	<b>T Status</b>	ABD	<b>Tank Protect.</b>	CP	<b>Pipe Protect.</b>	CP
		<b>Notify</b>	06/22/87	<b>Capacity</b>	3,000	<b>Tank Cont. Meth.</b>	SW	<b>Pipe Cont. Meth.</b>	SW
		<b>Variance</b>		<b>Product</b>	DL	<b>Overfill Type</b>	Ver	<b>Piping Type</b>	
		<b>Compl.</b>		<b>C Status</b>		<b>Age @ Notif.</b>	10	<b>Dist. to Well</b>	
		<b>Spill Det.</b>		<b>Left Gal.</b>		<b>Owner @ ABD</b>	BURNETTE, FATE	<b>Last Use</b>	
		<b>Aband.</b>	11/11/11	<b>Method</b>	RG	<b>CAS No.</b>	<b>Chem.</b>		
		<b>Under Dispenser Cont.</b>	N	<b>Drop Tube</b>	N	<b>Tank Leak Det.</b>		<b>Pipe Leak Det.</b>	

# Approved Cost Agreement 56477

Facility: 05289 BURNETTES SERVICE STATION

BUTLERKH

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
23 EFR		A4 96 HOUR EVENT	1.0000	\$4,400.000	4,400.00
		C4 OFF GAS TREATMENT 96 HOUR	1.0000	\$150.000	150.00
		D SITE RECONNAISSANCE	1.0000	\$75.000	75.00
		F1 EFFLUENT DISPOSAL	10,000.0000	\$0.125	1,250.00
		G AFVR EQUIPMENT MOB	1.0000	\$350.000	350.00
<b>Total Amount</b>					<b>6,225.00</b>

# Emerald, Inc.

CONSULTING AND ENGINEERING  
SERVICES IN ENVIRONMENTAL AFFAIRS



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2520 TAHOE DRIVE • POST OFFICE BOX 3050 • SUMTER, SOUTH CAROLINA 29151

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WEBSITE:  
[www.emeraldinc-us.com](http://www.emeraldinc-us.com)

May 9, 2018



Kathryn H. Butler, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Underground Storage Tank Management  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, SC 29201

Aggressive Fluid Vapor Recovery Report  
Burnettes Service Station  
Ridgeland, South Carolina  
Jasper County  
UST Permit # 05289; CA # 56477  
Emerald Job # 18-013

Ms. Butler,

Please find the attached Aggressive Fluid Vapor Recovery (AFVR) Report for the Burnettes Service Station site. A site reconnaissance was conducted on April 13, 2018 to locate each monitoring well, gauge extraction wells, and assess site conditions. Prior to conducting this AFVR event information gathered during the site reconnaissance was presented to the SCDHEC project manager for review.

## **AGGRESSIVE FLUID VAPOR RECOVERY EVENT**

On April 16 through 20, 2018, Emerald, Inc. personnel performed a 96-hour AFVR event utilizing MW-6 and MW-3 as the extraction locations. This 96-hour AFVR event was conducted to reduce dissolved chemicals of concern previously detected at the subject site. Free phase petroleum product was not detected prior to or at the conclusion of the event. Monitoring well MW-3 was added as an extraction location on April 18, 2018 at 0800 in an attempt to increase

recovery at the site after consultation with the DHEC project manager. Monitoring well locations are presented on the attached site map provided by SCDHEC.

Table 1 presents the off-gas concentrations (using a Photoionization Detector), post treatment off-gas concentrations, off-gas velocity, and knockout tank vacuum. Table 2 presents the stinger depths, wellhead vacuum measurements, water levels measurements and magnehelic readings obtained during the event. Emerald, Inc. field personnel normally record data at thirty minute intervals for the first eight hours of the event, then at one hour intervals from hours nine through twenty-four and at two hour intervals from hour twenty-four until the conclusion of the event. During the hours of midnight to 8 AM event monitoring was suspended. Due to the site being vacant, off-gas treatment was not utilized.

According to the calculations as presented on Table 1, a total of 80.71 pounds of hydrocarbons (as vapor) and 12.91 equivalent gallons of hydrocarbons were removed during this event. Free phase product was not detected in the knockout tank. According to the meter, a total of 4,426 gallons of petroleum contaminated groundwater was transported to the City of Manning Wastewater Treatment Facility in Manning, SC for proper disposal. Copies of the disposal manifests for this event are included as attachments.

If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,  
Emerald, Inc.



William C. McClary, P.G.  
Project Manager



Ronny L. Lowder  
President

Attachments

**TABLE 1  
AFVR MONITORING DATA  
BURNETTES SERVICE STATION  
RIDGELAND, SOUTH CAROLINA  
SCDHEC SITE ID # 05289  
EMERALD JOB # 18-013**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Knockout Tank Vacuum (in. Hg)	Off-Gas Concentration (PPM)	Post-Treatment Concentration (PPM)	Offgas Velocity (ft/min)	Flow Rate (CFM)	CG:M (mg/dsm <sup>3</sup> )	Cg (Lb/Dscf)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-6	4/16/18	8:30	Start	19	401	N/A	1,731	84.97	2,132	1.33E-04	0.68	-
MW-3 <sup>1</sup>		9:00 ↓	0.5	20	394	N/A	1,625	79.76	2,095	1.31E-04	0.63	0.33
		9:30	0.5	20	406	N/A	1,608	78.93	2,159	1.35E-04	0.64	0.32
		10:00 ↓	0.5	20	355	N/A	1,537	75.44	1,888	1.18E-04	0.53	0.29
		10:30	0.5	20	319	N/A	1,588	77.95	1,696	1.06E-04	0.50	0.26
		11:00 ↓	0.5	20	311	N/A	1,551	76.13	1,654	1.03E-04	0.47	0.24
		11:30	0.5	19	285	N/A	1,629	79.96	1,516	9.46E-05	0.45	0.23
		12:00 ↓	0.5	18	221	N/A	1,690	82.95	1,175	7.34E-05	0.37	0.20
		12:30	0.5	18	208	N/A	1,686	82.76	1,106	6.91E-05	0.34	0.18
		13:00 ↓	0.5	18	233	N/A	1,753	86.05	1,239	7.74E-05	0.40	0.19
		13:30	0.5	18	312	N/A	1,707	83.79	1,659	1.04E-04	0.52	0.23
		14:00 ↓	0.5	18	370	N/A	1,672	82.07	1,968	1.23E-04	0.60	0.28
		14:30	0.5	18	309	N/A	1,670	81.97	1,643	1.03E-04	0.50	0.28
		15:00 ↓	0.5	18	335	N/A	1,714	84.13	1,781	1.11E-04	0.56	0.27
		15:30	0.5	18	316	N/A	1,681	82.51	1,680	1.05E-04	0.52	0.27
		16:00 ↓	0.5	18	375	N/A	1,641	80.55	1,994	1.24E-04	0.60	0.28
		16:30	0.5	18	383	N/A	1,693	83.10	2,037	1.27E-04	0.63	0.31
		17:00 ↓	0.5	18	317	N/A	1,704	83.64	1,686	1.05E-04	0.53	0.29
		18:00	1.0	19	330	N/A	1,661	81.53	1,755	1.10E-04	0.54	0.53
		19:00	1.0	20	321	N/A	1,893	92.92	1,707	1.07E-04	0.59	0.57
		20:00	1.0	20	296	N/A	1,741	85.46	1,574	9.83E-05	0.50	0.55
		21:00	1.0	20	271	N/A	1,834	90.02	1,441	9.00E-05	0.49	0.49
		22:00	1.0	20	341	N/A	1,777	87.22	1,813	1.13E-04	0.59	0.54
		23:00	1.0	20	376	N/A	1,824	89.53	1,999	1.25E-04	0.67	0.63
	4/17/18	0:00	1.0	20	351	N/A	1,898	93.16	1,867	1.17E-04	0.65	0.66
		8:00 ↑	8.0	20	426	N/A	1,777	87.22	2,265	1.41E-04	0.74	5.57
		10:00 ↓	2.0	20	399	N/A	1,831	89.87	2,122	1.32E-04	0.71	1.45
		12:00 ↓	2.0	20	382	N/A	1,814	89.04	2,031	1.27E-04	0.68	1.39
		14:00 ↓	2.0	20	410	N/A	1,793	88.01	2,180	1.36E-04	0.72	1.40
		16:00 ↓	2.0	20	354	N/A	1,767	86.73	1,882	1.18E-04	0.61	1.33
		18:00	2.0	20	317	N/A	1,755	86.14	1,686	1.05E-04	0.54	1.16

**TABLE 1 Cont'd.  
AFVR MONITORING DATA  
BURNETTES SERVICE STATION  
RIDGELAND, SOUTH CAROLINA  
SCDHEC SITE ID # 05289  
EMERALD JOB # 18-013**

Extraction Wells	Date	Time (hh:mm)	Differential Time (hr)	Knockout Tank Vacuum (in. Hg)	Off-Gas Concentration (PPM)	Post-Treatment Concentration (PPM)	Offgas Velocity (ft/min)	Flow Rate (CFM)	CG:M (mg/dsm <sup>3</sup> )	Cg (Lb/Dscf)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-6	4/17/18	20.00	2.0	20	310	N/A	1,951	95.76	1,648	1.03E-04	0.59	1.75
MW-3 <sup>1</sup>		22.00	2.0	20	450	N/A	1,824	89.53	2,393	1.49E-04	0.80	1.39
	4/18/18	0.00	2.0	20	381	N/A	1,765	86.64	2,026	1.26E-04	0.66	1.46
	Added MW-3	8.00	8.0	19	816	N/A	1,695	83.20	4,339	2.71E-04	1.35	8.04
		10.00	↑	2.0	19	N/A	1,730	84.92	3,845	2.40E-04	1.22	2.58
		12.00	↓	2.0	19	N/A	1,736	85.21	3,935	2.46E-04	1.26	2.48
		14.00	↓	2.0	20	N/A	1,613	79.17	2,579	1.61E-04	0.76	2.02
		16.00	↓	2.0	20	N/A	1,646	80.79	3,148	1.97E-04	0.95	1.72
		18.00	↓	2.0	20	N/A	1,581	77.60	2,771	1.73E-04	0.81	1.76
		20.00	↓	2.0	20	N/A	1,520	74.61	3,605	2.25E-04	1.01	1.81
		22.00	↓	2.0	20	N/A	1,638	80.40	3,409	2.13E-04	1.03	2.03
	4/19/18	0.00	2.0	20	536	N/A	1,663	81.63	2,850	1.78E-04	0.87	1.90
		8.00	↑	8.0	20	N/A	1,701	83.49	1,648	1.03E-04	0.52	5.55
		10.00	↓	2.0	20	N/A	1,627	79.86	4,323	2.70E-04	1.29	1.81
		12.00	↓	2.0	20	N/A	1,638	80.40	3,308	2.06E-04	1.00	2.29
		14.00	↓	2.0	20	N/A	1,682	82.56	3,212	2.01E-04	0.99	1.99
		16.00	↓	2.0	20	N/A	1,644	80.70	3,286	2.05E-04	0.99	1.99
		18.00	↓	2.0	20	N/A	1,622	79.62	2,888	1.80E-04	0.86	1.85
		20.00	↓	2.0	20	N/A	1,691	83.00	2,771	1.73E-04	0.86	1.72
		22.00	↓	2.0	20	N/A	1,639	80.45	3,371	2.10E-04	1.02	1.88
	4/20/18	0.00	2.0	20	678	N/A	1,824	89.53	3,605	2.25E-04	1.21	2.23
		8.00	8.0	20	639	N/A	1,741	85.46	3,398	2.12E-04	1.09	9.19
		8.30	0.5	20	696	N/A	1,821	89.38	3,701	2.31E-04	1.24	0.58
Well Gauging Data			Before AFVR Event			After AFVR Event			Equations			
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	$Cg, m = PPMg^3(Mg/K3)$ $Removal Rate = Cg * Flow Rate * 60Min/Hr$ $Interval Removal = (T_1 + T_2)/2$ $PPM = Part per Million (by PID)$ $Cg m = mg/dsm^3(\text{mass concentration of gasoline emission})$ $Mg = 128 \text{ mg/mg-mole, molecular weight of gasoline}$ $K3 = 24.07 \text{ dsm}^3/1E6 \text{ mg-mole, mass to volume conversion}$ $Cg = lb/dscf, \text{ mass concentration of gasoline by emission}$ $Removal Rate = lb/hr, \text{ pollutant mass removal rate of emission}$			
MW-6	2	3 29-13 29	---	2.55	---	---	8.55	---				
MW-3	2	3 12-13 12	---	3.53	---	---	9.75	---				
Product Thickness			Recovery / Disposal Information									
Product observed in Sight Tube?			No	Hydrocarbons Removed (vapor):		80.71	Pounds					
Product detected in Tanker?			No	Hydrocarbons Removed (liquid):		0.00	Gallons					
Weather Conditions			Emerald, Inc.	Total Hydrocarbons Removed:		12.91	Equivalent Gallons					
4/16/18	Clear, 48-64°F		Personnel	Molecular Weight Utilized:		128	mg/mg-mole					
4/17/18	Clear, 42-73°F		J Hornsby	Disposal Facility:		City of Manning Wastewater Treatment Facility						
4/18/18	Clear, 55-88°F		C Papp	Total Liquids Removed:		4.426	Gallons					
4/19/18	Clear, 63-84°F											
4/20/18	Clear, 48-68°F											
Notes												
↑ = Stinger raised    ↓ = Stinger lowered												
<sup>1</sup> On 4/18/18 at 8:00, Emerald, Inc. personnel began using MW-3 as an extraction well.												



**TABLE 2  
EVENT MONITORING DATA  
BURNETTES SERVICE STATION  
RIDGELAND, SOUTH CAROLINA  
SCDHEC SITE ID # 05289  
EMERALD JOB # 18-013**

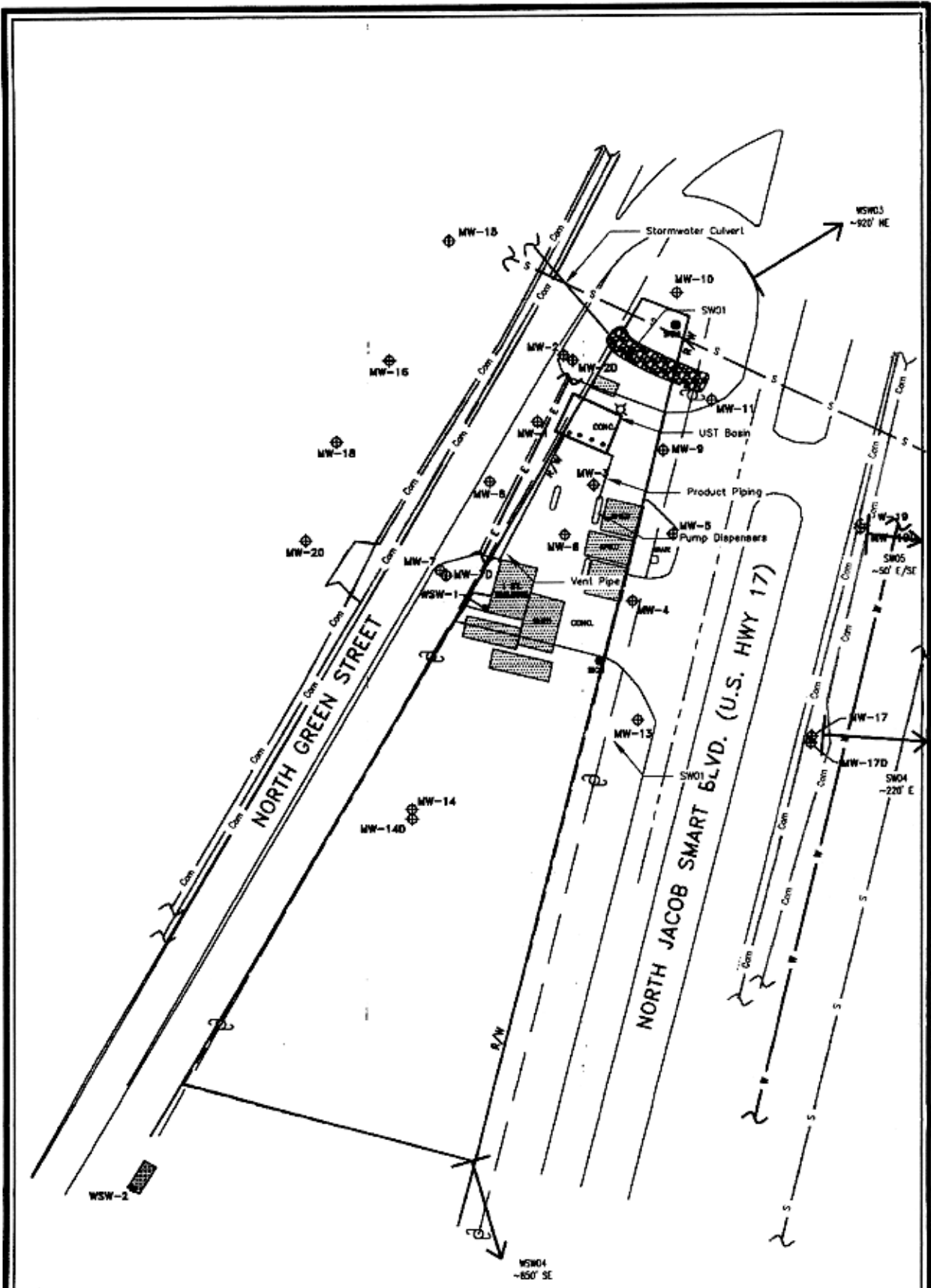
Date	Time (hh:mm)	Extraction Wells				Event Monitoring			
		MW-6		---		MW-3		MW-9	
		Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Magnehelic Reading (inches of water)	Depth to Water (ft.)	Magnehelic Reading (inches of water)	Depth to Water (ft.)
4/16/18	8:30	3.5	18	---	---	Pre	2.42	Pre	2.35
	9:00	4.0	19	---	---	---	---	---	---
	9:30	4.0	19	---	---	---	---	---	---
	10:00	5.0	19	---	---	---	---	---	---
	10:30	5.0	19	---	---	<0.1	2.47	<0.1	2.37
	11:00	6.0	19	---	---	---	---	---	---
	11:30	6.0	19	---	---	---	---	---	---
	12:00	7.0	18	---	---	---	---	---	---
	12:30	7.0	17	---	---	<0.1	2.52	<0.1	2.39
	13:00	8.0	17	---	---	---	---	---	---
	13:30	8.0	17	---	---	---	---	---	---
	14:00	9.0	17	---	---	---	---	---	---
	14:30	9.0	17	---	---	<0.1	2.58	<0.1	2.40
	15:00	10.0	17	---	---	---	---	---	---
	15:30	10.0	17	---	---	---	---	---	---
	16:00	11.0	17	---	---	---	---	---	---
	16:30	11.0	17	---	---	<0.1	2.67	<0.1	2.35
	17:00	12.0	17	---	---	---	---	---	---
	18:00	12.0	17	---	---	<0.1	2.78	<0.1	2.29
	19:00	12.0	17	---	---	---	---	---	---
	20:00	12.0	17	---	---	<0.1	2.84	<0.1	2.25
	21:00	12.0	17	---	---	---	---	---	---
	22:00	12.0	17	---	---	<0.1	2.87	<0.1	2.24
	23:00	12.0	17	---	---	---	---	---	---
4/17/18	0:00	12.0	17	---	---	<0.1	2.93	<0.1	2.24
	8:00	8.0	19	---	---	<0.1	2.91	<0.1	2.21
	10:00	9.0	19	---	---	<0.1	2.93	<0.1	2.23
	12:00	10.0	19	---	---	<0.1	2.97	<0.1	2.24
	14:00	11.0	19	---	---	<0.1	2.99	<0.1	2.26
	16:00	12.0	19	---	---	<0.1	3.03	<0.1	2.29
	18:00	12.0	19	---	---	<0.1	3.05	<0.1	2.31
	20:00	12.0	19	---	---	<0.1	3.07	<0.1	2.30
	22:00	12.0	19	---	---	<0.1	3.10	<0.1	2.34

Notes:

**TABLE 2 Cont'd.  
EVENT MONITORING DATA  
BURNETTES SERVICE STATION  
RIDGELAND, SOUTH CAROLINA  
SCDHEC SITE ID # 05289  
EMERALD JOB # 18-013**

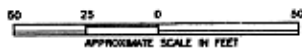
Date	Time (hh:mm)	Extraction Wells				Event Monitoring					
		MW-6		MW-3		MW-3		MW-9		MW-4	
		Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Magnehelic Reading (inches of water)	Depth to Water (ft.)	Magnehelic Reading (inches of water)	Depth to Water (ft.)	Magnehelic Reading (inches of water)	Depth to Water (ft.)
4/18/18	0:00	12.0	19	---	---	<0.1	3.12	<0.1	2.35	---	---
	8:00	12.0	18	4.0	14	---	---	<0.1	2.46	<0.1	2.12
	10:00	8.0	15	6.0	15	---	---	<0.1	2.48	<0.1	2.13
	12:00	9.0	15	8.0	15	---	---	<0.1	2.51	<0.1	2.15
	14:00	10.0	16	10.0	16	---	---	<0.1	2.55	<0.1	2.17
	16:00	11.0	16	11.0	16	---	---	<0.1	2.58	<0.1	2.19
	18:00	12.0	16	12.0	16	---	---	<0.1	2.63	<0.1	2.22
	20:00	12.0	16	12.0	16	---	---	<0.1	2.65	<0.1	2.25
	22:00	12.0	16	12.0	16	---	---	<0.1	2.67	<0.1	2.28
	4/19/18	0:00	12.0	16	12.0	16	---	---	<0.1	2.67	<0.1
8:00		7.0	16	7.0	16	---	---	<0.1	2.76	<0.1	2.33
10:00		8.0	16	8.0	16	---	---	<0.1	2.78	<0.1	2.34
12:00		8.0	16	8.0	16	---	---	<0.1	2.80	<0.1	2.36
14:00		8.0	16	8.0	16	---	---	<0.1	2.85	<0.1	2.38
16:00		9.0	16	9.0	16	---	---	<0.1	2.88	<0.1	2.41
18:00		10.0	16	10.0	16	---	---	<0.1	2.90	<0.1	2.45
20:00		10.0	16	10.0	16	---	---	<0.1	2.93	<0.1	2.47
22:00		10.0	16	10.0	16	---	---	<0.1	2.97	<0.1	2.53
4/20/18		0:00	10.0	16	10.0	16	---	---	<0.1	2.97	<0.1
	8:00	10.0	16	10.0	16	---	---	<0.1	3.05	<0.1	2.63
	8:30	10.0	16	10.0	16	---	---	<0.1	3.07	<0.1	2.65

Notes:



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- Groundwater Monitoring Well
- Approximate Location of Underground Electric Line
- Approximate Location of Underground Communication (Cable/Phone) Line
- Approximate Location of Underground Water Line
- Approximate Location of Underground Gas Line
- Approximate Location of Underground Sewer/Stormwater Line
- Approximate Property Boundary



Title	Site Base Map	
Project	Bumelia's Service Station (DST Permit #32289) 1157 N. Jacob Smart Boulevard Raleigh, South Carolina Jasper County	
Date	02/25/2015	
Job No.	J14-000-A	
		Figure No. 3

# NON-HAZARDOUS WASTE MANIFEST

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

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No. 1125-1	2. Page 1 of
3. Generator's Name and Mailing Address Burnette's Service Station 11577 North Jacob Smart Blvd Ridgeland S.C. UST Permit #05289				
4. Generator's Phone ( )				
5. Transporter 1 Company Name Emerald, Inc.	6. US EPA ID Number	A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone 803-469-5454		
9. Designated Facility Name and Site Address City of Manning Wastewater Treatment Facility PO Box 546 Manning, SC 29102		C. State Transporter's ID		
		D. Transporter 2 Phone		
		E. State Facility's ID		
		F. Facility's Phone		
11. WASTE DESCRIPTION		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Petroleum Contaminated Groundwater			4426	Gal
b.				
c.				
d.				
5. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name SOL F. HERNANDEZ JR		Signature <i>[Signature]</i>	Date Month Day Year 4 26 18	
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name KENNY LEE		Signature <i>[Signature]</i>	Date Month Day Year 5 3 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 James Bethca		Signature <i>[Signature]</i>	Date Month Day Year 5 15 18	

NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER

FACILITY

Manhole Access from Geosics

05289



NOV 13 2018



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: Site Specific Work Plan Requests  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 3.1, submission of Site Specific Work Plans (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 15 business days to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. Please contact me with the sampling schedule before commencing work at these facilities. A weekly update for each site is required to be submitted via email to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0671 or email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "R. Dunn".

Robert A. Dunn, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Packages

Cc: Trey Carter, Pace Analytical Services, 9800 Kinsey Ave. STE 100, Huntersville, NC 28078 (w/ Memo)  
Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

MEMORANDUM

TO: Midlands Environmental Consultants, Inc

FROM: Kathryn H. Butler

RE: Site Specific Work Plan Request

Facility Name: BURNETTES SERVICE STATION

Permit Number: 5289

County: Jasper

Work To Be Completed: Sample all monitoring wells, water supply wells, and surface water sources associated with the release for BTEXNM, 1,2 DCA, 8 OXY's, and EDB. Wells should be purged prior to sampling.

Total Number of Monitoring Well Samples: \_\_\_\_\_ 29

Analysis Being Requested: 8260B, 8011, BTEXNM + Oxys

Total Number of Water Supply Well Samples: \_\_\_\_\_ 4

Analysis Being Requested: 8260B, 524.2, 504.1 BTEXNM + Oxys

 **Midlands  
Environmental  
Consultants, Inc.**

December 12, 2018

Mr. Robert Dunn, 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  
Burnettes Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 18-6691  
Certified Site Rehabilitation Contractor UCC-0009



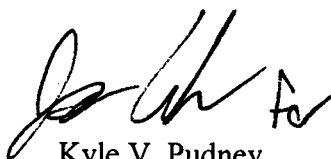
Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

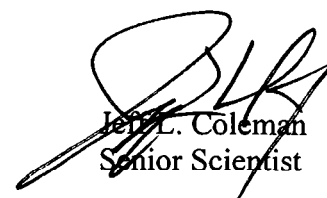
On December 10, 2018, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



Kyle V. Pudney  
Project Biologist



Jeff L. Coleman  
Senior Scientist



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

To: Ms. Kathryn H. Butler (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Burnette's Service Station UST Permit #: 05289
Facility Address: 11577 N Jacob Smart Blvd., Ridgeland, SC 29936
Responsible Party: Fate C. Burnette, Sr. Phone: 803-726-5098
RP Address: PO Box 1908, Ridgeland, SC 29936
Property Owner (if different): H.A. Torres, Jr.
Property Owner Address: N/A
Current Use of Property: Auto Shop

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B), Oxygenates (8260B), EDB (8011), PAH (8270D), Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron

Drinking Water Supply Wells:

- BTEXNMDCA (524.2), Oxygenates & Ethanol (8260B), Mercury (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: 4, Water Supply Wells: 2, Air: 3, Field Blank: 3, Monitoring Wells: 24, Surface Water: 5, Duplicate: 3, Trip Blank: 3

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 #: 05289 Facility Name: Burnettes Service Station

**Implementation Schedule** (Number of calendar days from approval)  
Field Work Start-Up: 12/12/2018 Field Work Completion: 1/12/2019  
Report Submittal: 2/12/2019 # of Copies Provided to Property Owners: 0

**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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
-During the initial site visit, all monitoring wells were located and found to be in good condition.  
-MECI will attempt to sample five surface water locations and four water supply wells during the sampling event.  
-All wells will be purged prior to sample collection.  
-Monitoring well and surface water samples will be analyzed for BTEXNM, 1,2-DCA, 8-OXY's (8260B), and EDB (8011).  
-Water supply well samples will be analyzed for BTEXNM, 1,2-DCA(524.2), 8-OXY's (8260B) and EDB (504.1).  
\_\_\_\_\_  
\_\_\_\_\_

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



**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 NUMBER 4600559329**

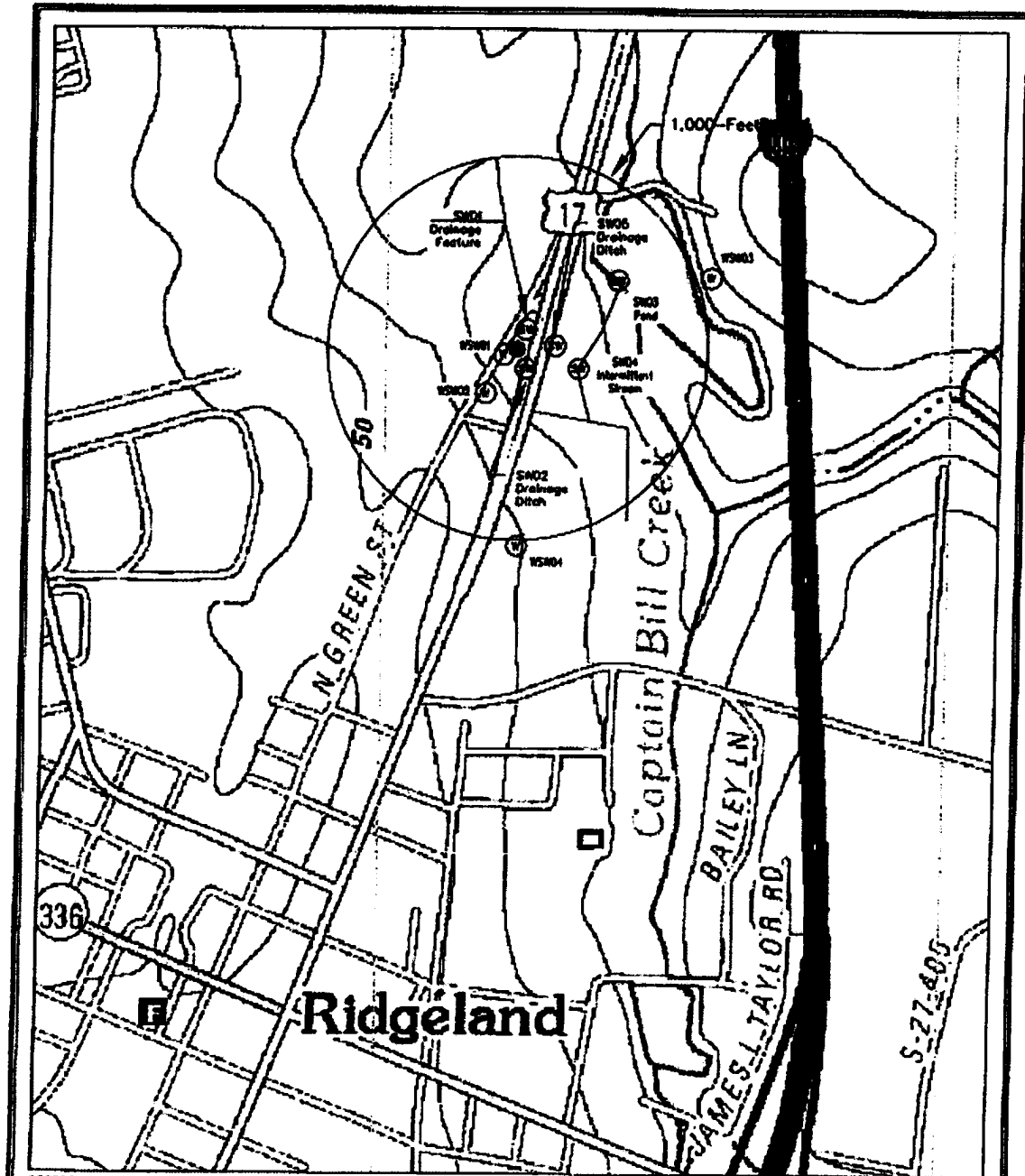
**Facility Name:** Burnette's Service Station

**UST Permit #:** 05289

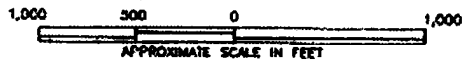
**Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	24	per well	\$36.50	\$876.00
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	4	samples	\$18.00	\$72.00
D1. Groundwater No Purge or Duplicate	5	per well	\$27.50	\$137.50
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	2	each	\$1.00	\$2.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	300	gallons	\$1.00	\$300.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				\$1,390.50

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



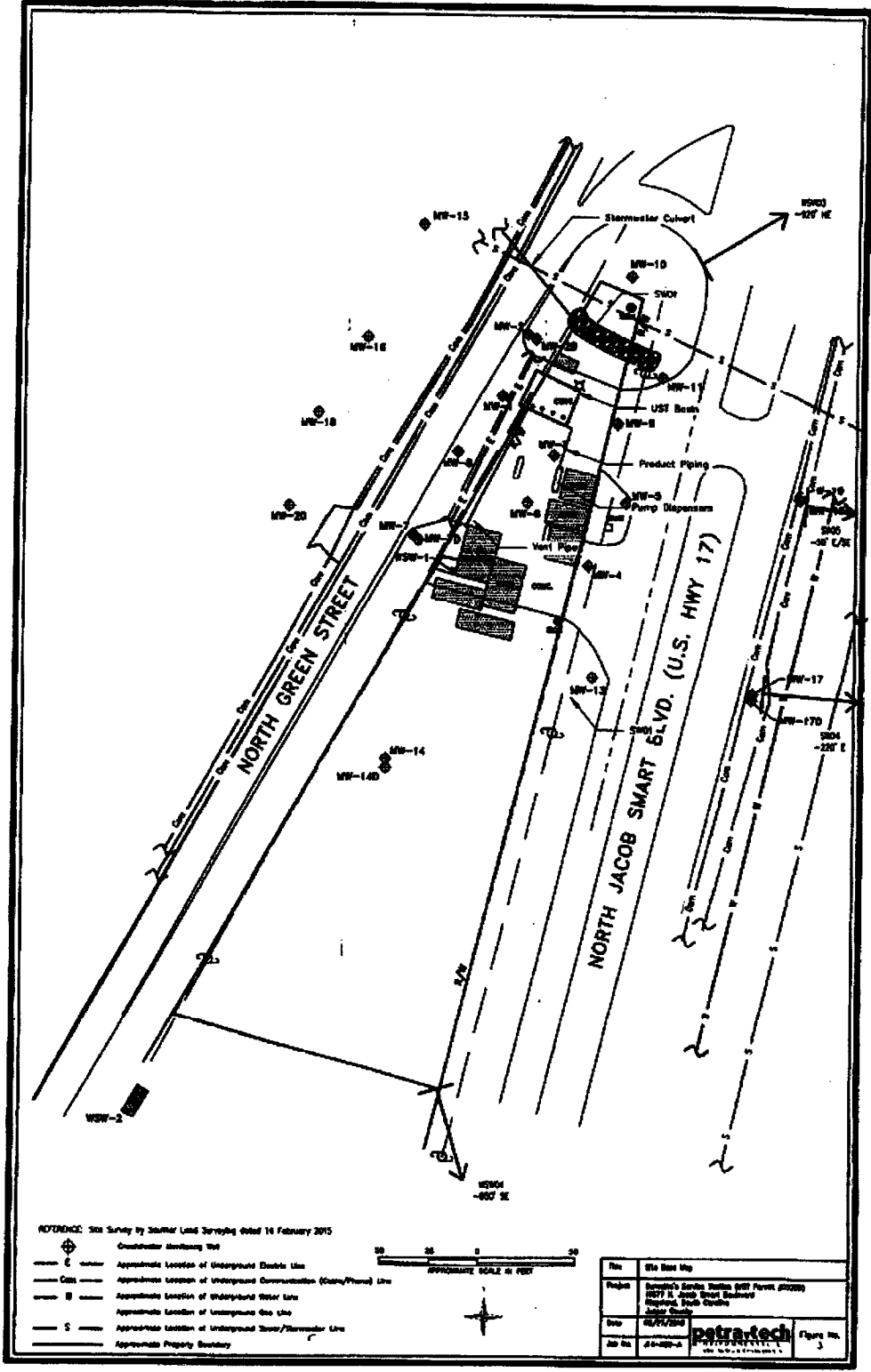
REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour interval - 10 feet); Figure 1  
 Site Location Map by Midlands Environmental Consultants, Inc.



- Approximate Site Location
- Surface Water
- ⊙ Private Water Supply Well



Title	Topographic Site Location Map	
Project	Bunette's Service Station (LST Permit #00288) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	<b>petra</b> tech ENGINEERING, LLC ENV. REGS. & COMPLIANCE
REV.	02/24/2015	
Job No.	#14-080-A	Figure No. 1





**MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**

**JAN 1 8 2019**



Re: Notice to Proceed-Site Specific Work Plan Approval  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906, PO #4600660752  
Burnettes Service Station, 11577 North Jacob Smart Boulevard, Ridgeland, SC  
UST Permit #05289; MECI CA #58307; Pace CA #58308  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone 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 UST Management Division.

Services at the site are to be performed on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. Please coordinate access to the facility with the property owner. 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. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within three weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed. The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Robert Dunn, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0606 or via e-mail at [butlerkh@dhec.sc.gov](mailto:butlerkh@dhec.sc.gov). If you have any contract specific questions, please contact Robert Dunn by phone (803) 898-0671 or email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

Kathryn H. Butler, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Trey Carter, Pace Analytical Services, 9800 Kincey Ave, Ste 100, Huntersville, NC, 28078 (w/ CA)  
Technical File (w/ Enc)

**Approved Cost Agreement 58307**

Facility: 05289 BURNETTES SERVICE STATION

BUTLERKH

PO Number:

<u>Task/Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01	PLAN				
		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04	MOB/DEMOB				
		B1 PERSONNEL	2.0000	\$1.000	2.00
10	SAMPLE COLLECTION				
		A1 GROUNDWATER (PURGE)	24.0000	\$36.500	876.00
		C1 WATER SUPPLY	4.0000	\$18.000	72.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	5.0000	\$27.500	137.50
		H1 FIELD BLANK	2.0000	\$1.000	2.00
17	DISPOSAL				
		AA WASTEWATER	300.0000	\$1.000	300.00
23	EFR				
		D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
<b>Total Amount</b>					<b>1,391.50</b>

# Approved Cost Agreement 58308

Facility: 05289 BURNETTES SERVICE STATION

BUTLERKH

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	34.0000	\$14.000	476.00
		F1 EDB BY 8011	33.0000	\$18.000	594.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	7.0000	\$36.000	252.00
		M 7-OXYGENATES & ETHANOL (8260B)	7.0000	\$13.000	91.00
		N EDB (504.1)	6.0000	\$18.000	108.00
<b>Total Amount</b>					<b>1,521.00</b>

# Midlands Environmental Consultants, Inc.



March 26, 2019

Mr. Robert A. Dunn, Hydrogeologist  
Corrective Action Section  
UST Management Division  
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  
Burnette's Service Station  
11577 North Jacob Smart Boulevard  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289; CA # 58307  
MECI Project Number 18-6691  
Certified Site Rehabilitation Contractor UCC-0009



Dear Mr. Dunn,

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).

## PROJECT INFORMATION

The subject site (Burnette's Service Station) is located at 11577 North Jacob Smart Boulevard in Ridgeland, Jasper County, South Carolina. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	4,000 Gal. Gasoline	Abandoned	Removed (Unknown)
2	4,000 Gal. Gasoline	Abandoned	Removed (Unknown)
3	6,000 Gal. Gasoline	Abandoned	Removed (Unknown)
4	3,000 Gal. Diesel Fuel	Abandoned	Removed (Unknown)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in December of 1991. The release was confirmed in March of 1992 and has been classified a Class 2BA due to water supply wells being located within 1 year hydraulically downgradient of the subject site.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.



## MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On March 20, 2019, MECI personnel collected groundwater samples from twenty-four (24) monitoring wells, five (5) surface water features, and two (2) water supply wells at the referenced site. Water supply well WSW-2 was found to be inactive during the sampling event and the property owner of WSW-4 denied MECI personnel permission to collect samples. Based on the request by SCDHEC personnel, all monitoring wells were to be purged prior to sample collection. Twenty-four (24) monitoring wells were purged prior to sample collection.

Prior to sampling, 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. 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, water temperature, and turbidity were obtained before well sampling process. MECI utilized 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 SCDHEC's most recent revision of the Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent revision of Standard Operating Procedures.

Groundwater samples obtained were sent to PACE Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006) 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 (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-2D	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
MW-6	X						X	X	X	X			
MW-7	X						X	X	X	X			
MW-7D	X						X	X	X	X			
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
MW-11	X						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 (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-13	X						X	X	X	X			
MW-14	X						X	X	X	X			
MW-15	X						X	X	X	X			
MW-16	X						X	X	X	X			
MW-17	X						X	X	X	X			
MW-17D	X						X	X	X	X			
MW-18	X						X	X	X	X			
MW-19	X						X	X	X	X			
MW-19D	X						X	X	X	X			
MW-20	X						X	X	X	X			
SW-1		X					X	X	X	X			
SW-2		X					X	X	X	X			
SW-3		X					X	X	X	X			
SW-4		X					X	X	X	X			
SW-5		X					X	X	X	X			
DUP-1(MW-5)							X	X	X	X			
DUP-2(MW-1)							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			
WSW-1										X		X	
WSW-2				X									
WSW-3										X		X	
WSW-4					X								
DUP (WSW-3)										X		X	
Field Blank-WSW										X		X	
Trip Blank-WSW										X		X	

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

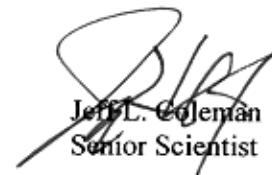
Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 101.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



for Kyle V. Pudney  
 Project Biologist



Jeff L. Coleman  
 Senior Scientist

Attachments:

**Contractor Checklist**

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? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	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		

**Site Activity Summary**

UST Permit #: 05289  
 Facility Name: Burnette's Station  
 County: Jasper  
 Field Personnel: J. Coolman, J. Phillips, C. Phillips



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1	Y	3/20/19	13:30	2-12	***	2.77	***	Sheen	2.50	Odor/Sheen
MW-2	Y	3/20/19	12:05	3.68-13.68	***	3.51	***	3.28	5.00	No Odor
MW-2D	Y	3/20/19	11:45	24.80-29.80	***	3.87	***	4.65	5.00	No O dor
MW-3	Y	3/20/19	13:45	3.12-13.12	***	2.90	***	2.96	2.00	Odor
MW-4	Y	3/20/19	12:25	3.59-13.59	***	2.94	***	2.00	6.00	No Odor
MW-5	Y	3/20/19	12:40	3.66-13.66	***	1.98	***	2.43	2.00	No Odor
MW-6	Y	3/20/19	13:32	3.29-13.29	***	3.18	***	Sheen	2.00	String Odor/Sheen
MW-7	Y	3/20/19	13:00	3.75-13.75	***	2.86	***	2.04	2.00	No Odor
MW-7D	Y	3/20/19	12:45	27.29-32.29	***	4.52	***	2.85	5.00	No Odor
MW-8	Y	3/20/19	13:15	3.45-13.45	***	3.01	***	Sheen	2.50	Odor/Sheen
MW-9	Y	3/20/19	13:10	3.76-13.76	***	2.28	***	2.19	2.50	No Odor, 2 Bolts Added
MW-10	Y	3/20/19	11:25	3.42-13.42	***	1.12	***	2.73	4.00	No Odor
MW-11	Y	3/20/19	12:25	3.65-13.65	***	1.32	***	2.36	6.50	No Odor
MW-13	Y	3/20/19	12:00	3.62-13.62	***	1.94	***	2.02	6.00	No Odor
MW-14	Y	3/20/19	11:01	3.72-13.72	***	2.34	***	2.08	9.50	No Odor
									62.50	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** Jasper  
**Field Personnel:** J. Coolman, J. Phillips, C. Phillips



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-14D	Y	3/20/19	10:45	18.57-23.57	***	2.02	***	2.02	4.00	No Odor
MW-15	Y	3/20/19	10:10	3.64-13.64	***	0.50	***	3.02	2.50	No Odor
MW-16	Y	3/20/19	10:24	1.85-11.85	***	3.89	***	3.73	2.00	No Odor, 3.36' Stick-Up Vault
MW-17	Y	3/20/19	11:00	3.71-13.71	***	2.58	***	2.22	9.50	No Odor
MW-17D	Y	3/20/19	10:44	25.31-30.31	***	3.74	***	4.90	5.00	No Odor
MW-18	Y	3/20/19	10:25	2.38-12.38	***	3.66	***	2.90	2.00	No Odor, 2.72' Stick-Up Vault
MW-19	Y	3/20/19	11:40	3.80-13.80	***	2.80	***	3.78	6.00	No Odor
MW-19D	Y	3/20/19	11:20	26.94-31.94	***	3.18	***	2.96	5.00	No Odor
MW-20	Y	3/20/19	10:10	3.17-13.17	***	0.39	***	1.90	2.50	No Odor
SW-1	Y	3/20/19	13:55	***	***	***	***	***	***	Taken from ditch
SW-2	Y	3/20/19	14:00	***	***	***	***	***	***	Taken from surface water feature near MW-13
SW-3	Y	3/20/19	14:25	***	***	***	***	***	***	Taken from pond
SW-4	Y	3/20/19	14:15	***	***	***	***	***	***	Taken from intermittent creek
SW-5	Y	3/20/19	14:05	***	***	***	***	***	***	Taken from ditch
DUP-1	Y	3/20/19	12:40	***	***	***	***	***	***	Duplicate of MW-5
									38.50	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 05289  
**Facility Name:** Burnette's Station  
**County:** Jasper  
**Field Personnel:** J. Coolman, J. Phillips, C. Phillips



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
DUP-2	Y	3/20/19	13:30	***	***	***	***	***	***	Duplicate of MW-1
Field Blank	Y	3/20/19	14:30	***	***	***	***	***	***	Field Blank
Trip Blank	Y	3/20/19	14:30	***	***	***	***	***	***	Trip Blank
WSW-1	Y	3/20/19	14:05	***	***	***	***	***	***	11577 N. Jacob Smart Blvd., Sample collected from spigot on WSW
WSW-2	N	3/20/19	NS	***	***	***	***	***	***	Inoperable
WSW-3	Y	3/20/19	14:25	***	***	***	***	***	***	10754 N. Jacob Smart Blvd., Sample collected from spigot on front of house/church
WSW-4	N	3/20/19	NS	***	***	***	***	***	***	No address posted, Permission Denied
WSW-DUP	Y	3/20/19	14:05	***	***	***	***	***	***	Duplicate sample of WSW-1
Filed Blank	Y	3/20/19	14:30	***	***	***	***	***	***	Field Blank-WSW
Trip Blank	Y	3/20/19	14:30	***	***	***	***	***	***	Trip Blank-WSW
									0.00	<b>TOTAL GALLONS PURGED</b>



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: 1

Job Name: Burnettes Service Station  
 Job Number: 18-6691

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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-1	Initial	13:20	Sheen												
	1st	13:23	Sheen												
	2nd								2.77		2-12	9.23	1.50	Dry @	Odor Sheen Dup 2
	3rd														
	4th														
	5th												7.52	2.5	
	Sampling	13:30	Sheen												
MW-2	Initial	11:50	6.54	442.6	18.7	3.28	103.5								
	1st	11:52	6.50	403.1	18.8	3.21	117.2								
	2nd	11:54	6.45	397.2	18.9	3.19	267.1								
	3rd	11:56	6.39	390.4	19.2	3.17	201.5		3.51		3.68-13.68	10.17	1.66	Dry @	No Odor
	4th														
	5th												8.29	S	
	Sampling	11:03	6.36	382.7	19.3	3.15	153.8								
MW-2D	Initial	11:30	6.54	404.9	19.0	4.65	129.6								
	1st	11:35	6.47	390.1	19.1	4.60	203.7								
	2nd														
	3rd								3.87		24.80-29.80	25.93	4.23	Dry @	No Odor
	4th														
	5th												21.13	S	
	Sampling	11:45	6.44	382.5	19.2	4.51	174.2								
MW-3	Initial	13:33	6.35	368.5	20.7	2.96	15.04								
	1st	13:38	6.21	365.7	20.9	2.90	183.6								
	2nd														
	3rd								2.90		3.12-13.12	10.22	1.67	Dry @	Odor
	4th														
	5th												8.33	2	
	Sampling	13:45	6.18	360.1	20.8	2.85	115.5								

\* = (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#	PhConductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251





## Monitoring Well Purge And Sampling Data

Field Personnel: JC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: 4

Job Name: Burnettes Service Station Calibration Data for:  
 Job Number: 18-6691  
 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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
MU-4	Initial	12:05	5.90	276.6	20.5	2.00	121.4									
	1st	12:07	5.19	260.1	20.7	2.35	216.3									
	2nd	12:09	5.73	257.4	20.9	2.42	287.1									
	3rd	12:11	5.72	256.1	20.9	2.45	189.4		2.94		3.59 - 13.59	10.65	1.74	Dry @ 6	No Odor	
	4th															
	5th															
	Sampling	12:25	5.70	253.8	21.2	2.49	153.8						8.68			
MU-5	Initial	12:30	6.60	561	19.4	2.43	102.7									
	1st	12:32	6.54	570	19.6	2.51	279.1									
	2nd															
	3rd															
	4th															
	5th															
	Sampling	12:40	6.51	562	19.7	2.55	155.1		1.98		3.66 - 13.66	11.68	1.90	Dry @ 2	No Odor Dup 1	
													9.52			
MU-6	Initial	13:20	Sheen													
	1st	13:22	Sheen													
	2nd															
	3rd															
	4th															
	5th															
	Sampling	13:32	Sheen													
MU-7	Initial	12:50	6.03	531	19.1	2.04	117.5									
	1st	12:52	5.97	549	19.4	2.19	241.1									
	2nd															
	3rd															
	4th															
	5th															
	Sampling	13:00	5.92	553	19.5	2.25	134.9		2.86		3.75 - 13.75	10.89	1.78	Dry @ 2	No Odor	
													8.88			

\* = (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



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: 1

Job Name: Burnettes Service Station  
 Job Number: 18-6691

Calibration Data for:  
 Calibration Successful? (Yes or No (Please Circle))  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No  
 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):		Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O			final H <sub>2</sub> O	**calc.		actual
MU-7D	Initial	12:30	5.90	183.5	19.4	2.85	46.01			4.52	27.29-32.29	27.77	4.53	Dry @ 5	No Odor
	1st	12:35	5.98	190.1	19.6	2.79	127.3								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	12:45	6.05	192.3	19.7	2.75	101.2					2263			
MU-8	Initial	13:05	Sheen							3.01	3.45-13.45	10.44	1.70	Dry @ 2.5	Odor Sheen
	1st	13:07	Sheen												
	2nd														
	3rd														
	4th														
	5th														
	Sampling	13:15	Sheen									8.51			
MU-9	Initial	13:00	6.11	172.9	18.9	2.19	175.3			2.28	3.76-13.76	11.48	1.87	Dry @ 2.5	No Odor
	1st	13:02	6.02	170.1	18.2	2.10	229.1								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	13:10	6.03	165.3	19.3	2.09	159.4					9.36			
MU-10	Initial	11:10	2.82	103.9	17.2	2.73	150.3			1.12	3.42-13.42	12.30	2.00	Dry @ 4	No Odor
	1st	11:12	5.17	101.2	17.5	2.67	254.7								
	2nd	11:14	5.74	99.4	17.6	2.64	301.4								
	3rd														
	4th														
	5th														
	Sampling	11:25	5.72	98.2	17.7	2.60	192.8					10.02			

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, or \* 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



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: 1

Job Name: Burnettes Service Station  
 Job Number: 18-6691

Calibration Data for:  
 Calibration Successful: Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-11	Initial	17:10	6.51	463	18.5	2.56	62.11								
	1st	2:12	6.47	470	18.7	2.31	152.7								
	2nd	2:14	6.46	472	18.7	2.28	186.1			1.32	365-13.65	12.33	2.00	Dry @ 6.5	No Odor
	3rd	2:16	6.42	479	18.8	2.25	211.9								
	4th														
	5th														
	Sampling	2:25	6.39	482	17.2	2.21	77.81						10.05		
MW-13	Initial	11:45	6.19	511	18.1	2.07	82.78								
	1st	11:47	6.12	514	18.5	1.93	137.7								
	2nd	11:49	6.07	523	18.4	1.88	215.1			1.94	362-13.62	11.68	1.90	Dry @ 6	No Odor
	3rd	11:51	6.06	529	18.6	1.87	251.8								
	4th														
	5th														
	Sampling	12:00	6.05	531	18.9	1.95	102.7						9.52		
MW-14	Initial	10:50	5.60	36.0	17.7	2.08	95.05								
	1st	10:53	5.57	51.2	17.9	1.97	162.4								
	2nd	10:55	5.54	82.8	18.1	1.92	208.9			2.34	372-13.72	11.38	1.85	9.50	No Odor
	3rd	10:57	5.51	65.1	18.2	1.87	249.0								
	4th	10:59	5.48	67.9	18.4	1.86	172.8								
	5th	11:01	5.46	68.5	18.5	1.84	100.7								
	Sampling												9.27		
MW-14D	Initial	10:50	6.49	367.2	16.9	2.02	51.03								
	1st	10:54	6.51	514.8	17.5	2.71	96.15								
	2nd									2.07	18.57-23.57	21.50	3.50	Dry @ 4	No Odor
	3rd														
	4th														
	5th														
	Sampling	10:45	6.54	399.8	18.9	2.10	73.19						17.52		

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, or \* 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



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: \_\_\_\_\_

Job Name: Burnettes Service Station Calibration Data for:  
 Job Number: 18-6691  
 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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-15	Initial	10:00	5.28	185.8	15.9	3.02	127.8								
	1st	10:03	5.20	183.2	16.3	3.15	218.4								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:10	5.09	180.9	16.7	2.95	197.1								
MW-16	Initial	10:15	5.23	224.6	15.5	3.73	97.09								
	1st	10:18	5.76	230.1	15.7	3.69	163.5								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:24	5.83	228.5	16.0	3.50	134.7								
MW-17	Initial	10:50	6.56	148.1	17.6	2.22	130.8								
	1st	10:52	6.25	224.6	17.5	2.66	216.0								
	2nd	10:54	6.20	287.9	17.8	2.71	343.2								
	3rd	10:56	6.21	291.4	17.9	2.79	302.1								
	4th	10:58	6.18	288.9	18.1	2.83	256.2								
	5th	11:00	6.17	294.2	18.2	2.86	199.7								
	Sampling														
MW-17D	Initial	10:30	7.11	259.5	17.7	4.90	62.01								
	1st	10:33	7.15	268.1	18.0	5.89	179.4								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:44	7.19	279.8	18.2	5.67	107.8								

\* = (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, 1.489 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.489

Sampling Case#	pH/Conductance SW	DO SW	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: 1

Job Name: Burnettes Service Station Calibration Data for:  
 Job Number: 18-6691 Calibration Successful?  Yes or No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity:  Yes  No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-18	Initial	10:15	5.34	224.9	15.5	2.90	90.38								
	1st	10:17	5.30	219.5	15.8	2.81	215.1								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:25	5.31	215.1	16.1	2.75	114.8								
MW-19	Initial	11:25	6.60	336.9	17.8	3.78	125.2								
	1st	11:27	6.54	331.2	17.9	3.71	202.9								
	2nd	11:29	6.52	324.6	18.1	3.67	217.1								
	3rd	11:31	6.51	320.1	18.2	3.62	251.3								
	4th														
	5th														
	Sampling	11:40	6.42	317.7	18.4	3.59	150.8								
MW-19D	Initial	11:05	2.71	50.1	18.4	2.96	53.01								
	1st	11:10	5.64	342.8	18.2	2.90	111.7								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	11:20	5.60	339.3	18.6	2.84	83.14								
MW-20	Initial	10:00	4.72	205.1	16.0	1.90	102.4								
	1st	10:02	4.71	204.9	16.3	1.81	27.5								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:10	4.68	202.6	16.8	1.08	156.9								

\* = (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 SW	DO SW	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: \_\_\_\_\_

Job Name: Burnettes Service Station  
 Job Number: 18-6691

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(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
SW-1	Initial	Taken from ditch 13:55													
	1st														
SW-2	2nd	Taken from ditch near MW-13 14:00													
	3rd														
SW-3	4th														
	5th	Taken from pond @ 14:25													
SW-4	Sampling														
	Initial	Taken from intermittent stream @ 14:15													
SW-5	1st														
	2nd														
DUP-1	3rd	MW-5													
	4th														
DUP-2	5th														
	Sampling														
Field Blank	Initial	MW-1													
	1st														
Trip Blank	2nd														
	3rd	14:30													
	4th														
	5th	14:30													
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, or \* 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



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, JP, CP  
 Sampling Date(s): 3/20/19  
 Sampling Case#: \_\_\_\_\_

Job Name: Burnettes Service Station Calibration Data for:  
 Job Number: 18-6691  
 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):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
WSW-1	Initial		11.57	7.1	14.05										11577 N Jacob Smart Blvd Spigot on well @ 14:05
	1st														
	2nd														
	3rd														
	4th														
WSW-2	Initial														Inactive
	1st														
	2nd														
	3rd														
	4th														
WSW-3	Initial														10754 N Jacob Smart Blvd Spigot on well @ 14:25
	1st														
	2nd														
	3rd														
	4th														
WSW-4	Initial														Desired Access
	1st														
	2nd														
	3rd														
	4th														
WSW-DUP	Initial														WSW-1
	1st														
	2nd														
	3rd														
	4th														
FB	Initial														14:30
	1st														
	2nd														
	3rd														
	4th														
TB	Initial														14:30
	1st														
	2nd														
	3rd														
	4th														

\* = (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



# CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

ALL SHADED AREAS are for LAB USE ONLY

Company: **SCDHEC**  
 Address: **2500 RAIN ST Columbia, SC 29201**  
 Report To: **R. Dunn**  
 Copy To:  
 Customer Project Name/Number: **Burgnettes Service Station / 18-6691**  
 State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**  
 Phone: **803 398-0671** Site/Facility ID #: **UJT-05289**  
 Email: **James.Coolman@scdhec.com**  
 Collected By (print): **James Coolman**  
 Collected By (signature): *[Signature]*  
 Sample Disposal:  Dispose as appropriate  Return  Archive  Hold

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses	Lab Profile/Line:
			Date	Time	Date	Time				
MU-1	G-W	G	3/20/19	5:30				6	X X	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:
MU-2				12:05						
MU-3				11:45						
MU-4				12:45						
MU-5				7:40						
MU-6				8:52						
MU-7				12:00						
MU-7D				11:45						
MU-8	G-W	G	3/20/19	12:15				6	X X	

\* 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 Remarks / Special Conditions / Possible Hazards: Type of Ice Used:  Wet  Blue  Dry  None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: **2343175**  
 Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **3/20/19**

Received by/Company: (Signature) Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature) Date/Time: \_\_\_\_\_

Received by/Company: (Signature) Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature) Date/Time: \_\_\_\_\_

Received by/Company: (Signature) Date/Time: \_\_\_\_\_

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ oC  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ oC  
 Cooler 1 Corrected Temp: \_\_\_\_\_ oC  
 Comments:  
  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
  
 Non Conformance(s): \_\_\_\_\_ Page: \_\_\_\_\_  
 YES / NO of: \_\_\_\_\_





# CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-In Number Here

**ALL SHADED AREAS are for LAB USE ONLY**

Company: SCDHL  
 Address: 2000 Hill St Columbia, SC 29301  
 Report To: R. Dan  
 Copy To:

Billing Information: PACE - 58308  
 Email To: dmr@other.sc.gov  
 Site Collection Info/Address: 11577 N. Jamboree Blvd  
 State: SC County/City: Jasper Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Customer Project Name/Number: Junetta Senior Station / 18-6691  
 Phone: 803-898-0671 Site/Facility ID #: UST-05289 Compliance Monitoring? [ ] Yes [ ] No  
 Email: James Caplan Purchase Order #: 2 DW PWS ID #: 2008  
 Collected By (print): James Caplan Quote #: 2 DW Location Code:  
 Collected By (signature): [Signature] Turnaround Date Required: 2 Immediately Packed on Ice: [ ] Yes [ ] No  
 Sample Disposal: [ ] Dispose as appropriate [ ] Return Rush: [ ] Same Day [ ] Next Day Field Filtered (if applicable): [ ] Yes [ ] No  
[ ] Archive: [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day Analysis: 2  
[ ] Hold: (Expedite Charges Apply)

Container Preservative Type \*\*  
 Lab Project Manager:  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses	Lab Profile/Line:
			Date	Time	Date	Time				
MW-9	GW	6	10/19	13:10				6	X	No Color
MW-10				11:25					X	No Color
MW-11				7:25					X	No Color
MW-13				1:00					X	No Color
MW-14				11:01					X	No Color
MW-14D				10:45					X	No Color
MW-15				10:10					X	No Color
MW-16				10:24					X	No Color
MW-17				11:00					X	No Color
MW-17D	GW	6	10/19	10:44				6	X	No Color

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: Y N NA

Customer Remarks / Special Conditions / Possible Hazards: None  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: None  
 Radchem sample(s) screened (<500 cpm): Y N NA  
 SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: **2343176**  
 Samples received via: FEDEX UPS Client Courier Pace Courier  
 Relinquished by/Company: (Signature) [Signature] Date/Time: 3/7/19  
 Received by/Company: (Signature) Date/Time:  
 Relinquished by/Company: (Signature) Date/Time:  
 Received by/Company: (Signature) Date/Time:  
 Relinquished by/Company: (Signature) Date/Time:  
 Received by/Company: (Signature) Date/Time:  
 Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
 Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
 Comments:  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO Page: of:



# 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: SCDHCC  
 Address: 2600 14th St Columbia SC 29201  
 Report To: R. Dean  
 Copy To: \_\_\_\_\_  
 Customer Project Name/Number: Burnley Senior Center / 15-6091  
 State: SC County/City: Columbia Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Phone: 803 888 0071 Site/Facility ID #: WIT-05389 Compliance Monitoring? [ ] Yes [ ] No  
 Email: \_\_\_\_\_  
 Collected By (print): Tony Gorman Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_  
 Collected By (signature): \_\_\_\_\_ Turnaround Date Required: \_\_\_\_\_ DW Location Code: \_\_\_\_\_  
 Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis: \_\_\_\_\_

Container Preservative Type \*\*  
 Lab Project Manager:  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	
	Lab Sample Receipt Checklist:	
	Custody Seals Present/Intact	Y N NA
	Custody Signatures Present	Y N NA
	Collector Signatures Present	Y N NA
	Bottles Intact	Y N NA
	Correct Bottles	Y N NA
	Sufficient Volume	Y N NA
	Samples Received on Ice	Y N NA
	VOA - Headspace Acceptable	Y N NA
	USDA Regulated Soils	Y N NA
	Samples in Holding Time	Y N NA
	Residual Chlorine Present	Y N NA
	Cl Strips:	
	Sample pH Acceptable	Y N NA
	pH Strips:	
	Sulfide Present	Y N NA
	Lead Acetate Strips:	
	LAB USE ONLY:	
	Lab Sample # / Comments:	

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
11-18	GW	6	7/1/19	10:25			6	
11-19				11:40				
11-19D				11:70				
11-19E				10:10				
11-2				3:55				
11-3				4:20				
11-4				4:15				
11-5				4:05				
DWP 1	GW	6	7/10/19	12:40			6	

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: \_\_\_\_\_  
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #: **2343177**  
 Samples received via: FEDEX UPS Client Courier Pace Courier  
 MTJL LAB USE ONLY

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: 3/10/19  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ oC  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ oC  
 Cooler 1 Corrected Temp: \_\_\_\_\_ oC  
 Comments: \_\_\_\_\_  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO Page: \_\_\_\_\_ of: \_\_\_\_\_



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

**ALL SHADED AREAS are for LAB USE ONLY**

Company: **SCDHEC**  
 Address: **1000 B. H. St. Columbia, SC 29201**  
 Report To: **Dunn**  
 Copy To: **Dunn**  
 Customer Project Name/Number: **Buncombe Sewer Station / 18-6691**  
 Phone: **803-898-0671**  
 Email: **UST-05289**  
 Collected By (print): **James Cochran**  
 Collected By (signature): *[Signature]*  
 Sample Disposal:  Dispose as appropriate  Return  Archive  Hold

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
<b>Field Blank</b>	<b>GW</b>	<b>G</b>	<b>3/20/19</b>	<b>12:30</b>			<b>6</b>	<b>X</b>
<b>Field Blank</b>	<b>GW</b>	<b>G</b>	<b>3/20/19</b>	<b>12:30</b>			<b>6</b>	<b>X</b>
<b>Field Blank</b>	<b>GW</b>	<b>G</b>	<b>3/20/19</b>	<b>14:30</b>			<b>7</b>	<b>X</b>

Container Preservative Type: **3 3**

Lab Project Manager: \_\_\_\_\_

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: \_\_\_\_\_

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: **2343142**

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used: **Wet** Blue Dry None

Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): **Y N NA**

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Lab Tracking #: **2343142**

Samples received via: **FEDEX UPS Client Courier Pace Courier**

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/20/19**

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Lab Sample Temperature Info:

- Temp Blank Received: **Y N NA**
- Therm ID#: \_\_\_\_\_
- Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C
- Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C
- Cooler 1 Corrected Temp: \_\_\_\_\_ °C
- Comments: \_\_\_\_\_

Trip Blank Received: **Y N NA**

HCL MeOH TSP Other

Non Conformance(s): **YES / NO** Page: \_\_\_\_\_ of: \_\_\_\_\_



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

**ALL SHADED AREAS are for LAB USE ONLY**

Company: **SCDHEC**

Address: **2506 B. Hwy, Columbia, SC 29201**

Report To: **R. Dunn**

Copy To:

Customer Project Name/Number: **University of South Carolina WSW**

State: **SC** County/City: **Columbia** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: **803-898-0671** Site/Facility ID #: **UST-0587** Compliance Monitoring?  Yes  No

Collected By (print): **S. McLean** Purchase Order #: **1505** DW PWS ID #: **8080**

Collected By (signature): **[Signature]** Turnaround Date Required: **1505** Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold: **1505** Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No Analysis: **1505**

Container Preservative Type \*\* **3 3 8**

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analysis	Lab Profile/Line
			Date	Time	Date	Time				
1505	DW	G	3/20/19	14:05				9	1505	DL
1505	DW	G	3/20/19	14:05				9	1505	DVS
1505	DW	G	3/20/19	14:06				9	1505	DL
1505	DW	G	3/20/19	14:30				9	1505	DL
1505	DW	G	3/20/19	14:30				6	1505	FB

Analyses

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: **Y N NA**

Sample pH Acceptable **Y N NA**

pH Strips: **Y N NA**

Sulfide Present **Y N NA**

Lead Acetate Strips: **Y N NA**

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: **Radchem sample(s) screened (<500 cpm): Y N NA**

Type of Ice Used: **Wet** Blue Dry None

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Packing Material Used:

Lab Tracking #: **2342565**

Samples received via: **FEDEX UPS Client Courier Pace Courier**

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/20/19** Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Lab Sample Temperature Info:

Temp Blank Received: **Y N NA**

Therm ID#:

Cooler 1 Temp Upon Receipt: **oC**

Cooler 1 Therm Corr. Factor: **oC**

Cooler 1 Corrected Temp: **oC**

Comments:

Trip Blank Received: **Y N NA**

HCL MeOH TSP Other

Non Conformance(s): **YES / NO** Page: **1** of: **1**



March 26, 2019

Re: Treatment of Purge Water  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 18-6691

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.

March 26, 2019

**A total of 101.00 gallons were treated on March 20, 2019 at the referenced site.**

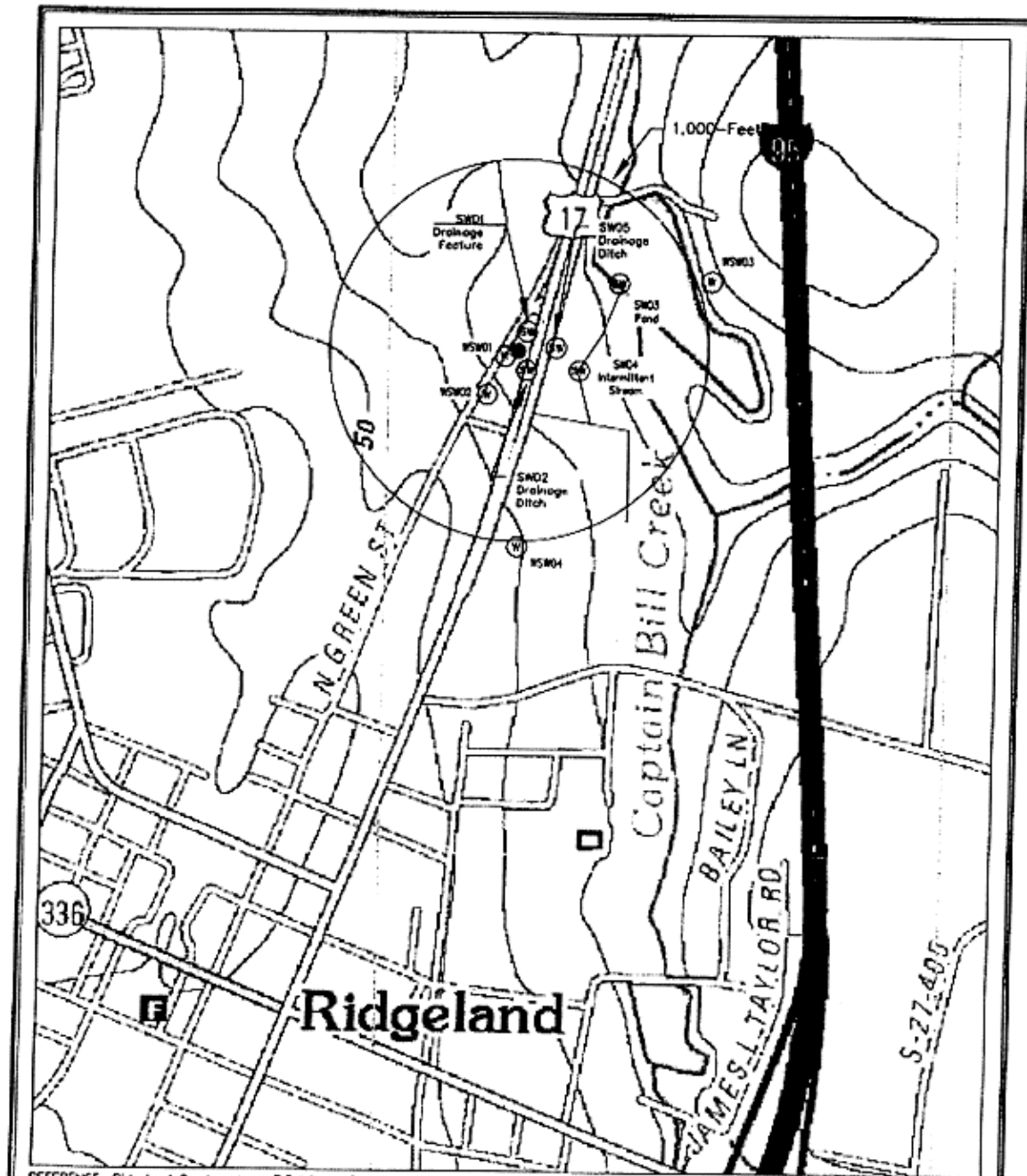
Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

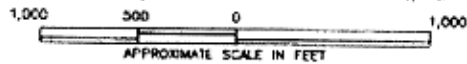
Sincerely,  
Midlands Environmental Consultants, Inc.



for Kyle V. Pudney  
Project Biologist



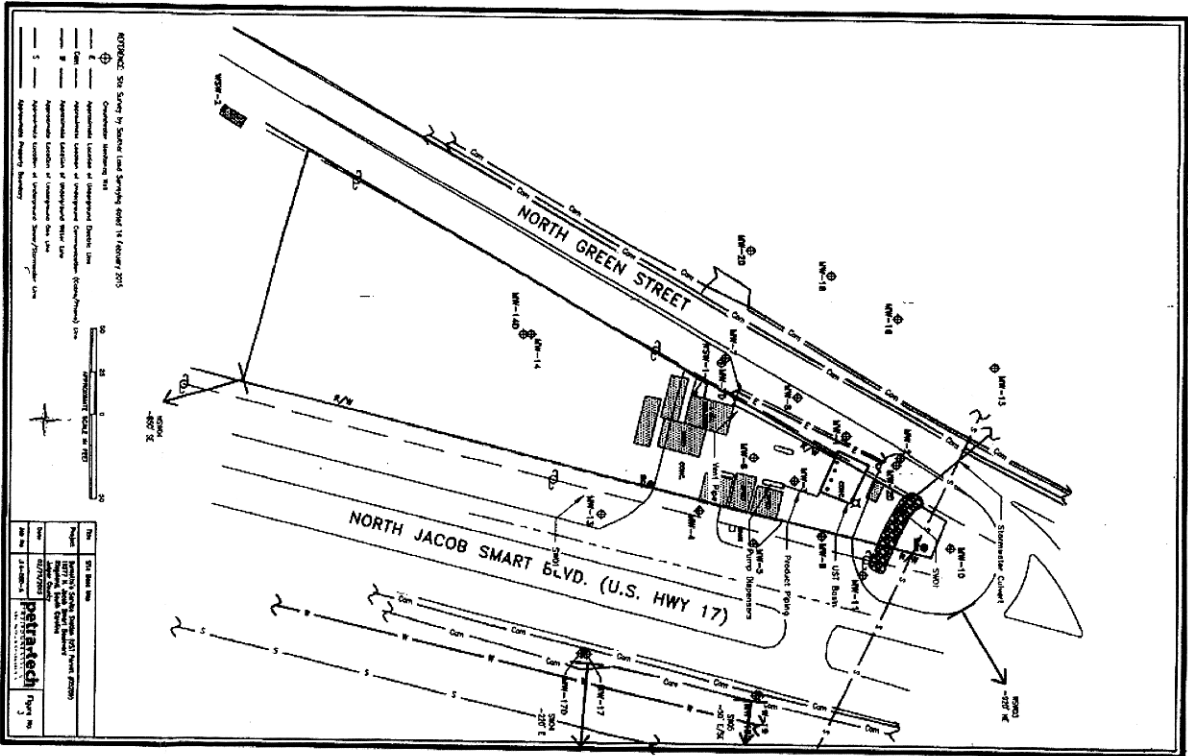
REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



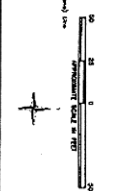
- Approximate Site Location
- SW Surface Water
- Private Water Supply Well



Title	Topographic Site Location Map	
Project	Burnette's Service Station (LST Permit #05288) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	
REV.	02/24/2015	
Job No.	J14-080-A	Figure No. 1



REFERENCE: Site Survey by Salvino Land Surveying, dated 14 February 2015.  
 1. Contour Interval: 5 ft.  
 2. Vertical Datum: National Geodetic Vertical Datum of 1988.  
 3. Horizontal Datum: North American Datum of 1983.  
 4. Projection: Universal Transverse Mercator, Zone 18N.  
 5. Assumed Magnetic Declination: 12° 00' W.



NO.	DATE	DESCRIPTION
1	11/11/14	Initial Survey
2	02/17/15	Final Survey

Prepared by: **Salvino Land Surveying**  
 10000 S. 10th Street, Suite 100, Phoenix, AZ 85042  
 Phone: (602) 998-1111  
 Fax: (602) 998-1112  
 Website: www.salvino.com





Pace Analytical Services, LLC  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

March 28, 2019



Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

*Angela M. Baioni*

Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, LLC**  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

## CERTIFICATIONS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

---

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92422212001	MW-1	Water	03/20/19 13:30	03/21/19 07:30
92422212002	MW-2	Water	03/20/19 12:05	03/21/19 07:30
92422212003	MW-2D	Water	03/20/19 11:45	03/21/19 07:30
92422212004	MW-3	Water	03/20/19 13:45	03/21/19 07:30
92422212005	MW-4	Water	03/20/19 12:25	03/21/19 07:30
92422212006	MW-5	Water	03/20/19 12:40	03/21/19 07:30
92422212007	MW-6	Water	03/20/19 13:32	03/21/19 07:30
92422212008	MW-7	Water	03/20/19 13:00	03/21/19 07:30
92422212009	MW-7D	Water	03/20/19 12:45	03/21/19 07:30
92422212010	MW-8	Water	03/20/19 13:15	03/21/19 07:30
92422212011	MW-9	Water	03/20/19 13:10	03/21/19 07:30
92422212012	MW-10	Water	03/20/19 11:25	03/21/19 07:30
92422212013	MW-11	Water	03/20/19 12:25	03/21/19 07:30
92422212014	MW-13	Water	03/20/19 12:00	03/21/19 07:30
92422212015	MW-14	Water	03/20/19 11:01	03/21/19 07:30
92422212016	MW-14D	Water	03/20/19 10:45	03/21/19 07:30
92422212017	MW-15	Water	03/20/19 10:10	03/21/19 07:30
92422212018	MW-16	Water	03/20/19 10:24	03/21/19 07:30
92422212019	MW-17	Water	03/20/19 11:00	03/21/19 07:30
92422212020	MW-17D	Water	03/20/19 10:44	03/21/19 07:30
92422212021	MW-18	Water	03/20/19 10:25	03/21/19 07:30
92422212022	MW-19	Water	03/20/19 11:40	03/21/19 07:30
92422212023	MW-19D	Water	03/20/19 11:20	03/21/19 07:30
92422212024	MW-20	Water	03/20/19 10:10	03/21/19 07:30
92422212025	SW-1	Water	03/20/19 13:55	03/21/19 07:30
92422212026	SW-2	Water	03/20/19 14:00	03/21/19 07:30
92422212027	SW-3	Water	03/20/19 14:25	03/21/19 07:30
92422212028	SW-4	Water	03/20/19 14:15	03/21/19 07:30
92422212029	SW-5	Water	03/20/19 14:05	03/21/19 07:30
92422212030	DUP-1	Water	03/20/19 12:40	03/21/19 07:30
92422212031	DUP-2	Water	03/20/19 13:30	03/21/19 07:30
92422212032	FIELD BLANK	Water	03/20/19 14:30	03/21/19 07:30
92422212033	TRIP BLANK	Water	03/20/19 14:30	03/21/19 07:30

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92422212001	MW-1	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212002	MW-2	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212003	MW-2D	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212004	MW-3	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212005	MW-4	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212006	MW-5	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212007	MW-6	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212008	MW-7	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212009	MW-7D	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212010	MW-8	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212011	MW-9	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212012	MW-10	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212013	MW-11	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212014	MW-13	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212015	MW-14	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92422212016	MW-14D	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212017	MW-15	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212018	MW-16	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92422212019	MW-17	EPA 8011	BAJ	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92422212020	MW-17D	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212021	MW-18	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212022	MW-19	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212023	MW-19D	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212024	MW-20	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212025	SW-1	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212026	SW-2	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212027	SW-3	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212028	SW-4	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212029	SW-5	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212030	DUP-1	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212031	DUP-2	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212032	FIELD BLANK	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92422212033	TRIP BLANK	EPA 8260B	CL	20	PASI-C
		EPA 8260B	CL	20	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92422212001</b>	<b>MW-1</b>					
EPA 8260B	Benzene	442	ug/L	100	03/25/19 19:44	
EPA 8260B	Ethylbenzene	399	ug/L	100	03/25/19 19:44	
EPA 8260B	Naphthalene	535	ug/L	100	03/25/19 19:44	
EPA 8260B	Toluene	2040	ug/L	100	03/25/19 19:44	
EPA 8260B	Xylene (Total)	1660	ug/L	100	03/25/19 19:44	
EPA 8260B	m&p-Xylene	1120	ug/L	200	03/25/19 19:44	
EPA 8260B	o-Xylene	541	ug/L	100	03/25/19 19:44	
<b>92422212002</b>	<b>MW-2</b>					
EPA 8260B	tert-Butyl Alcohol	589	ug/L	100	03/23/19 13:35	
EPA 8260B	Methyl-tert-butyl ether	25.6	ug/L	5.0	03/23/19 13:35	
<b>92422212004</b>	<b>MW-3</b>					
EPA 8260B	Benzene	1600	ug/L	1000	03/23/19 16:51	
EPA 8260B	Ethylbenzene	1610	ug/L	1000	03/23/19 16:51	
EPA 8260B	Naphthalene	1450	ug/L	1000	03/23/19 16:51	
EPA 8260B	Toluene	18400	ug/L	1000	03/23/19 16:51	M1
EPA 8260B	Xylene (Total)	12300	ug/L	1000	03/23/19 16:51	
EPA 8260B	m&p-Xylene	8150	ug/L	2000	03/23/19 16:51	
EPA 8260B	o-Xylene	4190	ug/L	1000	03/23/19 16:51	
<b>92422212005</b>	<b>MW-4</b>					
EPA 8260B	Xylene (Total)	44.1	ug/L	5.0	03/23/19 14:11	
EPA 8260B	m&p-Xylene	44.1	ug/L	10.0	03/23/19 14:11	
<b>92422212007</b>	<b>MW-6</b>					
EPA 8260B	Benzene	2410	ug/L	1250	03/25/19 20:09	
EPA 8260B	Ethylbenzene	2510	ug/L	1250	03/25/19 20:09	
EPA 8260B	Naphthalene	613J	ug/L	1250	03/25/19 20:09	
EPA 8260B	Toluene	47000	ug/L	1250	03/25/19 20:09	M1
EPA 8260B	Xylene (Total)	13700	ug/L	1250	03/25/19 20:09	
EPA 8260B	m&p-Xylene	9660	ug/L	2500	03/25/19 20:09	
EPA 8260B	o-Xylene	4010	ug/L	1250	03/25/19 20:09	
<b>92422212010</b>	<b>MW-8</b>					
EPA 8260B	Benzene	17.5	ug/L	5.0	03/23/19 14:46	
EPA 8260B	tert-Butyl Alcohol	146	ug/L	100	03/23/19 14:46	
EPA 8260B	Ethylbenzene	11.9	ug/L	5.0	03/23/19 14:46	
EPA 8260B	Naphthalene	10.8	ug/L	5.0	03/23/19 14:46	
EPA 8260B	Toluene	2.4J	ug/L	5.0	03/23/19 14:46	
EPA 8260B	m&p-Xylene	7.4J	ug/L	10.0	03/23/19 14:46	
<b>92422212011</b>	<b>MW-9</b>					
EPA 8260B	tert-Butyl Alcohol	272	ug/L	100	03/23/19 15:22	
EPA 8260B	Methyl-tert-butyl ether	26.3	ug/L	5.0	03/23/19 15:22	
<b>92422212030</b>	<b>DUP-1</b>					
EPA 8260B	Methyl-tert-butyl ether	0.50J	ug/L	1.0	03/24/19 01:14	

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**SUMMARY OF DETECTION**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92422212031</b>	<b>DUP-2</b>					
EPA 8260B	Benzene	597	ug/L	125	03/24/19 03:32	M1
EPA 8260B	Ethylbenzene	604	ug/L	125	03/24/19 03:32	
EPA 8260B	Naphthalene	477	ug/L	125	03/24/19 03:32	
EPA 8260B	Toluene	4310	ug/L	125	03/24/19 03:32	M1
EPA 8260B	Xylene (Total)	2790	ug/L	125	03/24/19 03:32	MS
EPA 8260B	m&p-Xylene	1870	ug/L	250	03/24/19 03:32	M1
EPA 8260B	o-Xylene	918	ug/L	125	03/24/19 03:32	M1

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## PROJECT NARRATIVE

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

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**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** March 28, 2019

**General Information:**

32 samples were analyzed for EPA 8011. 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.

**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.

QC Batch: 465414

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 2530529)
- 1,2-Dibromoethane (EDB)

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

---

**Method:** EPA 8260B  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** March 28, 2019

### General Information:

6 samples were analyzed for EPA 8260B. 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: 465045

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92422212027

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

- MS (Lab ID: 2529118)
- tert-Butyl Alcohol

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: 2529118)
- tert-Butyl Formate

### 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: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

---

**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** March 28, 2019

### General Information:

27 samples were analyzed for EPA 8260B. 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: 464925

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92422090003

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

- MS (Lab ID: 2529298)
  - Benzene
  - Ethylbenzene
  - Naphthalene
  - Toluene
  - m&p-Xylene
  - o-Xylene
- MSD (Lab ID: 2529299)
  - Benzene
  - Ethylbenzene
  - Naphthalene
  - Toluene
  - m&p-Xylene

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## PROJECT NARRATIVE

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

---

**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** March 28, 2019

**QC Batch:** 464925

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92422090003

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

**QC Batch:** 465030

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92422212004

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 2529426)
    - Toluene
  - MSD (Lab ID: 2529427)
    - Toluene

**QC Batch:** 465051

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92422212031

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 2530068)
    - Toluene
    - m&p-Xylene
    - o-Xylene
  - MSD (Lab ID: 2530069)
    - Benzene
    - Toluene
    - m&p-Xylene
    - o-Xylene

**QC Batch:** 465237

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92422212007

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 2529753)
    - Toluene
  - MSD (Lab ID: 2529754)
    - Toluene

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-1 Lab ID: 92422212001 Collected: 03/20/19 13:30 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 19:04	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	03/26/19 11:57	03/27/19 19:04	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	2000	1310	20		03/25/19 19:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		03/25/19 19:44	994-05-8	
Benzene	442	ug/L	100	34.8	20		03/25/19 19:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		03/25/19 19:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		03/25/19 19:44	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	482	20		03/25/19 19:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	41.2	20		03/25/19 19:44	107-06-2	
Diisopropyl ether	ND	ug/L	100	69.8	20		03/25/19 19:44	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		03/25/19 19:44	64-17-5	
Ethylbenzene	399	ug/L	100	36.8	20		03/25/19 19:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		03/25/19 19:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		03/25/19 19:44	1634-04-4	
Naphthalene	535	ug/L	100	41.8	20		03/25/19 19:44	91-20-3	
Toluene	2040	ug/L	100	40.2	20		03/25/19 19:44	108-88-3	
Xylene (Total)	1660	ug/L	100	100	20		03/25/19 19:44	1330-20-7	
m&p-Xylene	1120	ug/L	200	82.2	20		03/25/19 19:44	179601-23-1	
o-Xylene	541	ug/L	100	40.8	20		03/25/19 19:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		20		03/25/19 19:44	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		20		03/25/19 19:44	17060-07-0	
Toluene-d8 (S)	96	%	70-130		20		03/25/19 19:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

Sample: MW-2 Lab ID: 92422212002 Collected: 03/20/19 12:05 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 19:23	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	03/26/19 11:57	03/27/19 19:23	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 13:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 13:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 13:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 13:35	624-95-3	
tert-Butyl Alcohol	589	ug/L	100	91.0	1		03/23/19 13:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 13:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 13:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 13:35	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 13:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 13:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 13:35	637-92-3	
Methyl-tert-butyl ether	25.6	ug/L	5.0	3.1	1		03/23/19 13:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 13:35	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 13:35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 13:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 13:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 13:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/23/19 13:35	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		03/23/19 13:35	17060-07-0	
Toluene-d8 (S)	114	%	70-130		1		03/23/19 13:35	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-2D      Lab ID: 92422212003      Collected: 03/20/19 11:45      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/27/19 19:43	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/26/19 11:57	03/27/19 19:43	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/22/19 15:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/22/19 15:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/19 15:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/22/19 15:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/22/19 15:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/22/19 15:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/22/19 15:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/22/19 15:58	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/22/19 15:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/22/19 15:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/22/19 15:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/22/19 15:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/22/19 15:58	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/22/19 15:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/19 15:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/22/19 15:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/22/19 15:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/22/19 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/22/19 15:58	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/22/19 15:58	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422212

**Sample: MW-3**      **Lab ID: 92422212004**      Collected: 03/20/19 13:45      Received: 03/21/19 07:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 20:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	120	%	60-140		1	03/26/19 11:57	03/27/19 20:03	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	20000	13100	200		03/23/19 16:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	608	200		03/23/19 16:51	994-05-8	
Benzene	<b>1600</b>	ug/L	1000	348	200		03/23/19 16:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	10800	200		03/23/19 16:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	18200	200		03/23/19 16:51	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	4820	200		03/23/19 16:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	412	200		03/23/19 16:51	107-06-2	
Diisopropyl ether	ND	ug/L	1000	698	200		03/23/19 16:51	108-20-3	
Ethanol	ND	ug/L	40000	28800	200		03/23/19 16:51	64-17-5	
Ethylbenzene	<b>1610</b>	ug/L	1000	368	200		03/23/19 16:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	1690	200		03/23/19 16:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1000	620	200		03/23/19 16:51	1634-04-4	
Naphthalene	<b>1450</b>	ug/L	1000	418	200		03/23/19 16:51	91-20-3	
Toluene	<b>18400</b>	ug/L	1000	402	200		03/23/19 16:51	108-88-3	M1
Xylene (Total)	<b>12300</b>	ug/L	1000	1000	200		03/23/19 16:51	1330-20-7	
m&p-Xylene	<b>8150</b>	ug/L	2000	822	200		03/23/19 16:51	179601-23-1	
o-Xylene	<b>4190</b>	ug/L	1000	408	200		03/23/19 16:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		200		03/23/19 16:51	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		200		03/23/19 16:51	17060-07-0	
Toluene-d8 (S)	109	%	70-130		200		03/23/19 16:51	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-4 Lab ID: 92422212005 Collected: 03/20/19 12:25 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 20:22	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	03/26/19 11:57	03/27/19 20:22	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 14:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 14:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 14:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 14:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 14:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 14:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 14:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 14:11	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 14:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 14:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 14:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 14:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 14:11	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 14:11	108-88-3	
Xylene (Total)	44.1	ug/L	5.0	5.0	1		03/23/19 14:11	1330-20-7	
m&p-Xylene	44.1	ug/L	10.0	4.1	1		03/23/19 14:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 14:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/23/19 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/23/19 14:11	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		03/23/19 14:11	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422212

Sample: MW-5 Lab ID: 92422212006 Collected: 03/20/19 12:40 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/27/19 20:42	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/26/19 11:57	03/27/19 20:42	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/22/19 16:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/22/19 16:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/19 16:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/22/19 16:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/22/19 16:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/22/19 16:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/22/19 16:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/22/19 16:16	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/22/19 16:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/22/19 16:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/22/19 16:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/22/19 16:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/22/19 16:16	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/22/19 16:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/19 16:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/22/19 16:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/22/19 16:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/22/19 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/22/19 16:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/22/19 16:16	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-6      Lab ID: 92422212007      Collected: 03/20/19 13:32      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 21:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	121	%	60-140		1	03/26/19 11:57	03/27/19 21:01	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	25000	16400	250		03/25/19 20:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	760	250		03/25/19 20:09	994-05-8	
Benzene	2410	ug/L	1250	435	250		03/25/19 20:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	13500	250		03/25/19 20:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	22800	250		03/25/19 20:09	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	6020	250		03/25/19 20:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	515	250		03/25/19 20:09	107-06-2	
Diisopropyl ether	ND	ug/L	1250	872	250		03/25/19 20:09	108-20-3	
Ethanol	ND	ug/L	50000	36000	250		03/25/19 20:09	64-17-5	
Ethylbenzene	2510	ug/L	1250	460	250		03/25/19 20:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	2120	250		03/25/19 20:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	775	250		03/25/19 20:09	1634-04-4	
Naphthalene	613J	ug/L	1250	522	250		03/25/19 20:09	91-20-3	
Toluene	47000	ug/L	1250	502	250		03/25/19 20:09	108-88-3	M1
Xylene (Total)	13700	ug/L	1250	1250	250		03/25/19 20:09	1330-20-7	
m&p-Xylene	9660	ug/L	2500	1030	250		03/25/19 20:09	179601-23-1	
o-Xylene	4010	ug/L	1250	510	250		03/25/19 20:09	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		250		03/25/19 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		250		03/25/19 20:09	17060-07-0	
Toluene-d8 (S)	112	%	70-130		250		03/25/19 20:09	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-7 Lab ID: 92422212008 Collected: 03/20/19 13:00 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/27/19 21:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	03/26/19 11:57	03/27/19 21:21	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/22/19 16:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/22/19 16:33	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/19 16:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/22/19 16:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/22/19 16:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/22/19 16:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/22/19 16:33	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/22/19 16:33	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/22/19 16:33	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/22/19 16:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/22/19 16:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/22/19 16:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/22/19 16:33	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/22/19 16:33	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/19 16:33	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/22/19 16:33	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/22/19 16:33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	T00	%	70-130		1		03/22/19 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/22/19 16:33	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/22/19 16:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422212

Sample: MW-7D Lab ID: 92422212009 Collected: 03/20/19 12:45 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/27/19 21:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	03/26/19 11:57	03/27/19 21:40	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/22/19 15:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/22/19 15:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/19 15:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/22/19 15:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/22/19 15:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/22/19 15:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/22/19 15:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/22/19 15:41	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/22/19 15:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/22/19 15:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/22/19 15:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/22/19 15:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/22/19 15:41	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/22/19 15:41	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/19 15:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/22/19 15:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/22/19 15:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/22/19 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/22/19 15:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/22/19 15:41	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-8 Lab ID: 92422212010 Collected: 03/20/19 13:15 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 22:00	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/26/19 11:57	03/27/19 22:00	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 14:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 14:46	994-05-8	
Benzene	17.5	ug/L	5.0	1.7	1		03/23/19 14:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 14:46	624-95-3	
tert-Butyl Alcohol	146	ug/L	100	91.0	1		03/23/19 14:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 14:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 14:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 14:46	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 14:46	64-17-5	
Ethylbenzene	11.9	ug/L	5.0	1.8	1		03/23/19 14:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 14:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 14:46	1634-04-4	
Naphthalene	10.8	ug/L	5.0	2.1	1		03/23/19 14:46	91-20-3	
Toluene	2.4J	ug/L	5.0	2.0	1		03/23/19 14:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 14:46	1330-20-7	
m&p-Xylene	7.4J	ug/L	10.0	4.1	1		03/23/19 14:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 14:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/23/19 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/23/19 14:46	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/23/19 14:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-9      Lab ID: 92422212011      Collected: 03/20/19 13:10      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 22:19	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	03/26/19 11:57	03/27/19 22:19	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 15:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 15:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 15:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 15:22	624-95-3	
tert-Butyl Alcohol	272	ug/L	100	91.0	1		03/23/19 15:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 15:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 15:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 15:22	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 15:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 15:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 15:22	637-92-3	
Methyl-tert-butyl ether	26.3	ug/L	5.0	3.1	1		03/23/19 15:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 15:22	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 15:22	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 15:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 15:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 15:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/23/19 15:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/23/19 15:22	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		03/23/19 15:22	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

Sample: MW-10      Lab ID: 92422212012      Collected: 03/20/19 11:25      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 23:18	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	03/26/19 11:57	03/27/19 23:18	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 13:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 13:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 13:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 13:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 13:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 13:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 13:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 13:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 13:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 13:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 13:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 13:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 13:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 13:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 13:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 13:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 13:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/23/19 13:17	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		03/23/19 13:17	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		03/23/19 13:17	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-11 Lab ID: 92422212013 Collected: 03/20/19 12:25 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 23:37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	03/26/19 11:57	03/27/19 23:37	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/22/19 16:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/22/19 16:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/19 16:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/22/19 16:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/22/19 16:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/22/19 16:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/22/19 16:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/22/19 16:50	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/22/19 16:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/22/19 16:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/22/19 16:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/22/19 16:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/22/19 16:50	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/22/19 16:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/19 16:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/22/19 16:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/22/19 16:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/22/19 16:50	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/22/19 16:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/22/19 16:50	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-13 Lab ID: 92422212014 Collected: 03/20/19 12:00 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/27/19 23:57	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	03/26/19 11:57	03/27/19 23:57	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/22/19 17:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/22/19 17:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/19 17:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/22/19 17:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/22/19 17:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/22/19 17:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/22/19 17:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/22/19 17:07	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/22/19 17:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/22/19 17:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/22/19 17:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/22/19 17:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/22/19 17:07	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/22/19 17:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/19 17:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/22/19 17:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/22/19 17:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/22/19 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/22/19 17:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/22/19 17:07	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-14 Lab ID: 92422212015 Collected: 03/20/19 11:01 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/28/19 00:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/26/19 11:57	03/28/19 00:16	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/22/19 17:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/22/19 17:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/19 17:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/22/19 17:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/22/19 17:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/22/19 17:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/22/19 17:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/22/19 17:25	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/22/19 17:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/22/19 17:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/22/19 17:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/22/19 17:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/22/19 17:25	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/22/19 17:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/19 17:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/22/19 17:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/22/19 17:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/22/19 17:25	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/22/19 17:25	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/22/19 17:25	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422212

Sample: MW-14D Lab ID: 92422212016 Collected: 03/20/19 10:45 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/28/19 00:36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	03/26/19 11:57	03/28/19 00:36	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 11:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 11:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 11:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 11:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 11:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 11:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 11:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 11:48	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 11:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 11:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 11:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 11:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 11:48	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 11:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 11:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 11:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 11:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/23/19 11:48	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/23/19 11:48	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		03/23/19 11:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-15      Lab ID: 92422212017      Collected: 03/20/19 10:10      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 19:43	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	03/26/19 11:57	03/26/19 19:43	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 12:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 12:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 12:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 12:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 12:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 12:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 12:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 12:06	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 12:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 12:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 12:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 12:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 12:06	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 12:06	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 12:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 12:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 12:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/23/19 12:06	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/23/19 12:06	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		03/23/19 12:06	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422212

Sample: MW-16 Lab ID: 92422212018 Collected: 03/20/19 10:24 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 20:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/26/19 11:57	03/26/19 20:01	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 12:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 12:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 12:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 12:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 12:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 12:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 12:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 12:24	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 12:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 12:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 12:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 12:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 12:24	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 12:24	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 12:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 12:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 12:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/23/19 12:24	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/23/19 12:24	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		03/23/19 12:24	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-17      Lab ID: 92422212019      Collected: 03/20/19 11:00      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 20:20	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	03/26/19 11:57	03/26/19 20:20	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/24/19 00:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/24/19 00:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/24/19 00:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/24/19 00:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/24/19 00:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/24/19 00:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/24/19 00:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/24/19 00:16	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/24/19 00:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/24/19 00:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/24/19 00:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/24/19 00:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/24/19 00:16	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/24/19 00:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/24/19 00:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/24/19 00:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/24/19 00:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/24/19 00:16	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/24/19 00:16	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		03/24/19 00:16	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-17D Lab ID: 92422212020 Collected: 03/20/19 10:44 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 20:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	03/26/19 11:57	03/26/19 20:56	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/24/19 00:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/24/19 00:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/24/19 00:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/24/19 00:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/24/19 00:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/24/19 00:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/24/19 00:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/24/19 00:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/24/19 00:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/24/19 00:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/24/19 00:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/24/19 00:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/24/19 00:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/24/19 00:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/24/19 00:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/24/19 00:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/24/19 00:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/24/19 00:34	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/24/19 00:34	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/24/19 00:34	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-18 Lab ID: 92422212021 Collected: 03/20/19 10:25 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/26/19 21:50	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	03/26/19 11:57	03/26/19 21:50	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 23:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 23:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 23:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 23:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 23:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 23:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 23:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 23:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 23:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 23:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 23:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 23:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 23:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 23:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 23:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 23:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 23:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/23/19 23:05	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/23/19 23:05	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		03/23/19 23:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422212

**Sample: MW-19**      **Lab ID: 92422212022**      Collected: 03/20/19 11:40      Received: 03/21/19 07:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011    Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 22:09	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	110	%	60-140		1	03/26/19 11:57	03/26/19 22:09	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 23:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 23:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 23:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 23:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 23:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 23:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 23:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 23:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 23:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 23:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 23:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 23:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 23:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 23:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 23:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 23:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 23:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/23/19 23:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		03/23/19 23:23	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		03/23/19 23:23	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-19D      Lab ID: 92422212023      Collected: 03/20/19 11:20      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/26/19 22:27	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	03/26/19 11:57	03/26/19 22:27	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 23:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 23:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 23:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 23:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 23:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 23:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 23:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 23:41	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 23:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 23:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 23:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 23:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 23:41	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 23:41	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 23:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 23:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 23:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/23/19 23:41	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/23/19 23:41	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		03/23/19 23:41	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: MW-20 Lab ID: 92422212024 Collected: 03/20/19 10:10 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 22:45	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/26/19 11:57	03/26/19 22:45	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 23:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 23:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 23:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 23:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 23:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 23:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 23:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 23:58	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 23:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 23:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 23:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 23:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 23:58	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 23:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 23:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 23:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 23:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/23/19 23:58	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		03/23/19 23:58	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		03/23/19 23:58	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: SW-1      Lab ID: 92422212025      Collected: 03/20/19 13:55      Received: 03/21/19 07:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011    Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 23:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	03/26/19 11:57	03/26/19 23:03	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/24/19 00:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/24/19 00:42	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/24/19 00:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/24/19 00:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/24/19 00:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/24/19 00:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/24/19 00:42	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/24/19 00:42	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/24/19 00:42	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/24/19 00:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/24/19 00:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		03/24/19 00:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/24/19 00:42	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/24/19 00:42	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/24/19 00:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/24/19 00:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/24/19 00:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/24/19 00:42	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/24/19 00:42	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/24/19 00:42	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

Sample: SW-2 Lab ID: 92422212026 Collected: 03/20/19 14:00 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 23:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	124	%	60-140		1	03/26/19 11:57	03/26/19 23:21	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/23/19 23:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/23/19 23:22	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/23/19 23:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/23/19 23:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/23/19 23:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/23/19 23:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/23/19 23:22	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/23/19 23:22	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/23/19 23:22	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/23/19 23:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/23/19 23:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		03/23/19 23:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/23/19 23:22	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/23/19 23:22	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/23/19 23:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/23/19 23:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/23/19 23:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/23/19 23:22	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/23/19 23:22	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/23/19 23:22	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: SW-3      Lab ID: 92422212027      Collected: 03/20/19 14:25      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 23:39	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	110	%	60-140		1	03/26/19 11:57	03/26/19 23:39	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/23/19 23:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/23/19 23:38	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/23/19 23:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/23/19 23:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/23/19 23:38	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/23/19 23:38	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/23/19 23:38	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/23/19 23:38	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/23/19 23:38	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/23/19 23:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/23/19 23:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		03/23/19 23:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/23/19 23:38	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/23/19 23:38	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/23/19 23:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/23/19 23:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/23/19 23:38	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/23/19 23:38	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/23/19 23:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/23/19 23:38	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: SW-4 Lab ID: 92422212028 Collected: 03/20/19 14:15 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/26/19 23:57	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	03/26/19 11:57	03/26/19 23:57	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/23/19 23:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/23/19 23:54	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/23/19 23:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/23/19 23:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/23/19 23:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/23/19 23:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/23/19 23:54	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/23/19 23:54	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/23/19 23:54	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/23/19 23:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/23/19 23:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		03/23/19 23:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/23/19 23:54	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/23/19 23:54	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/23/19 23:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/23/19 23:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/23/19 23:54	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/23/19 23:54	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		03/23/19 23:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/23/19 23:54	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: SW-5      Lab ID: 92422212029      Collected: 03/20/19 14:05      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	03/26/19 11:57	03/27/19 00:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	03/26/19 11:57	03/27/19 00:16	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/24/19 00:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/24/19 00:10	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/24/19 00:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/24/19 00:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/24/19 00:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/24/19 00:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/24/19 00:10	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/24/19 00:10	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/24/19 00:10	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/24/19 00:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/24/19 00:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		03/24/19 00:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/24/19 00:10	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/24/19 00:10	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/24/19 00:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/24/19 00:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/24/19 00:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/24/19 00:10	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/24/19 00:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/24/19 00:10	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

Sample: DUP-1      Lab ID: 92422212030      Collected: 03/20/19 12:40      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	03/26/19 11:57	03/27/19 00:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	03/26/19 11:57	03/27/19 00:34	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/24/19 01:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/24/19 01:14	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/24/19 01:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/24/19 01:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/24/19 01:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/24/19 01:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/24/19 01:14	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/24/19 01:14	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/24/19 01:14	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/24/19 01:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/24/19 01:14	637-92-3	
Methyl-tert-butyl ether	0.50J	ug/L	1.0	0.28	1		03/24/19 01:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/24/19 01:14	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/24/19 01:14	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/24/19 01:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/24/19 01:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/24/19 01:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/24/19 01:14	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		03/24/19 01:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/24/19 01:14	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: DUP-2      Lab ID: 92422212031      Collected: 03/20/19 13:30      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 00:52	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	125	%	60-140		1	03/26/19 11:57	03/27/19 00:52	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	2500	1640	25		03/24/19 03:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	76.0	25		03/24/19 03:32	994-05-8	
Benzene	597	ug/L	125	43.5	25		03/24/19 03:32	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1350	25		03/24/19 03:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	2280	25		03/24/19 03:32	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	602	25		03/24/19 03:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	51.5	25		03/24/19 03:32	107-06-2	
Diisopropyl ether	ND	ug/L	125	87.2	25		03/24/19 03:32	108-20-3	
Ethanol	ND	ug/L	5000	3600	25		03/24/19 03:32	64-17-5	
Ethylbenzene	604	ug/L	125	46.0	25		03/24/19 03:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	212	25		03/24/19 03:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	77.5	25		03/24/19 03:32	1634-04-4	
Naphthalene	477	ug/L	125	52.2	25		03/24/19 03:32	91-20-3	
Toluene	4310	ug/L	125	50.2	25		03/24/19 03:32	108-88-3	M1
Xylene (Total)	2790	ug/L	125	125	25		03/24/19 03:32	1330-20-7	MS
m&p-Xylene	1870	ug/L	250	103	25		03/24/19 03:32	179601-23-1	M1
o-Xylene	918	ug/L	125	51.0	25		03/24/19 03:32	95-47-6	M1
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		25		03/24/19 03:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		25		03/24/19 03:32	17060-07-0	
Toluene-d8 (S)	107	%	70-130		25		03/24/19 03:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

Sample: **FIELD BLANK** Lab ID: **92422212032** Collected: 03/20/19 14:30 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/26/19 11:57	03/27/19 01:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	03/26/19 11:57	03/27/19 01:10	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 22:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 22:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 22:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 22:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 22:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 22:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 22:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 22:29	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 22:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 22:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 22:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 22:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 22:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 22:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 22:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 22:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 22:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/23/19 22:29	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/23/19 22:29	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		03/23/19 22:29	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Sample: TRIP BLANK Lab ID: 92422212033 Collected: 03/20/19 14:30 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/23/19 22:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/23/19 22:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/19 22:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/23/19 22:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/23/19 22:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/23/19 22:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/23/19 22:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/23/19 22:47	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/23/19 22:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/23/19 22:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/23/19 22:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/23/19 22:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/23/19 22:47	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/23/19 22:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/19 22:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/23/19 22:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/23/19 22:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108	%	70-130		1		03/23/19 22:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/23/19 22:47	17060-07-0	
Toluene-d8 (S)	113	%	70-130		1		03/23/19 22:47	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

QC Batch: 465045 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92422212025, 92422212026, 92422212027, 92422212028, 92422212029, 92422212030

METHOD BLANK: 2529116 Matrix: Water  
Associated Lab Samples: 92422212025, 92422212026, 92422212027, 92422212028, 92422212029, 92422212030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.34	03/23/19 21:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/23/19 21:13	
Benzene	ug/L	ND	1.0	0.15	03/23/19 21:13	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/23/19 21:13	
Ethanol	ug/L	ND	200	98.8	03/23/19 21:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/23/19 21:13	
Ethylbenzene	ug/L	ND	1.0	0.26	03/23/19 21:13	
m&p-Xylene	ug/L	ND	2.0	0.41	03/23/19 21:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	03/23/19 21:13	
Naphthalene	ug/L	ND	1.0	0.35	03/23/19 21:13	
o-Xylene	ug/L	ND	1.0	0.22	03/23/19 21:13	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/23/19 21:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/23/19 21:13	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/23/19 21:13	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/23/19 21:13	
Toluene	ug/L	ND	1.0	0.24	03/23/19 21:13	
Xylene (Total)	ug/L	ND	1.0	0.63	03/23/19 21:13	
1,2-Dichloroethane-d4 (S)	%	93	70-130		03/23/19 21:13	
4-Bromofluorobenzene (S)	%	98	70-130		03/23/19 21:13	
Toluene-d8 (S)	%	100	70-130		03/23/19 21:13	

LABORATORY CONTROL SAMPLE: 2529117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.2	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	878	88	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Diisopropyl ether	ug/L	50	44.2	88	70-130	
Ethanol	ug/L	2000	1740	87	70-130	
Ethyl-tert-butyl ether	ug/L	100	84.8	85	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	96.0	96	70-130	
Methyl-tert-butyl ether	ug/L	50	45.4	91	70-130	
Naphthalene	ug/L	50	45.3	91	70-130	
o-Xylene	ug/L	50	48.0	96	70-130	
tert-Amyl Alcohol	ug/L	1000	897	90	70-130	
tert-Amylmethyl ether	ug/L	100	93.4	93	70-130	
tert-Butyl Alcohol	ug/L	500	450	90	70-130	
tert-Butyl Formate	ug/L	400	360	90	70-130	
Toluene	ug/L	50	45.9	92	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

LABORATORY CONTROL SAMPLE: 2529117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2529118

Parameter	Units	92422212027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.9	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	396	99	70-130	
Benzene	ug/L	ND	20	21.2	106	70-130	
Diisopropyl ether	ug/L	ND	20	19.3	96	70-130	
Ethanol	ug/L	ND	800	868	108	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	38.2	95	70-130	
Ethylbenzene	ug/L	ND	20	21.4	107	70-130	
m&p-Xylene	ug/L	ND	40	43.2	108	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.4	102	70-130	
Naphthalene	ug/L	ND	20	22.2	111	70-130	
o-Xylene	ug/L	ND	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	ND	400	428	107	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.1	103	70-130	
tert-Butyl Alcohol	ug/L	ND	200	330	165	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	12	70-130 P5	
Toluene	ug/L	ND	20	21.4	107	70-130	
Xylene (Total)	ug/L	ND	60	64.4	107	70-130	
1,2-Dichloroethane-d4 (S)	%				92	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2529119

Parameter	Units	92422212028 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

SAMPLE DUPLICATE: 2529119

Parameter	Units	92422212028 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	99	4		
4-Bromofluorobenzene (S)	%	97	97	1		
Toluene-d8 (S)	%	101	101	1		

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

QC Batch: 464925 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92422212003, 92422212006, 92422212008, 92422212009, 92422212013, 92422212014, 92422212015

METHOD BLANK: 2528324 Matrix: Water  
 Associated Lab Samples: 92422212003, 92422212006, 92422212008, 92422212009, 92422212013, 92422212014, 92422212015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/22/19 10:49	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/22/19 10:49	
Benzene	ug/L	ND	5.0	1.7	03/22/19 10:49	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/22/19 10:49	
Ethanol	ug/L	ND	200	144	03/22/19 10:49	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/22/19 10:49	
Ethylbenzene	ug/L	ND	5.0	1.8	03/22/19 10:49	
m&p-Xylene	ug/L	ND	10.0	4.1	03/22/19 10:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/22/19 10:49	
Naphthalene	ug/L	ND	5.0	2.1	03/22/19 10:49	
o-Xylene	ug/L	ND	5.0	2.0	03/22/19 10:49	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/22/19 10:49	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/22/19 10:49	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/22/19 10:49	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/22/19 10:49	
Toluene	ug/L	ND	5.0	2.0	03/22/19 10:49	
Xylene (Total)	ug/L	ND	5.0	5.0	03/22/19 10:49	
1,2-Dichloroethane-d4 (S)	%	93	70-130		03/22/19 10:49	
4-Bromofluorobenzene (S)	%	99	70-130		03/22/19 10:49	
Toluene-d8 (S)	%	100	70-130		03/22/19.10:49	

LABORATORY CONTROL SAMPLE: 2528325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.5	85	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	878	88	70-130	
Benzene	ug/L	50	44.6	89	70-130	
Diisopropyl ether	ug/L	50	43.8	88	70-130	
Ethanol	ug/L	2000	1680	84	70-130	
Ethyl-tert-butyl ether	ug/L	100	85.4	85	70-130	
Ethylbenzene	ug/L	50	45.1	90	70-130	
m&p-Xylene	ug/L	100	90.4	90	70-130	
Methyl-tert-butyl ether	ug/L	50	46.0	92	70-130	
Naphthalene	ug/L	50	46.9	94	70-130	
o-Xylene	ug/L	50	46.4	93	70-130	
tert-Amyl Alcohol	ug/L	1000	908	91	70-130	
tert-Amylmethyl ether	ug/L	100	92.1	92	70-130	
tert-Butyl Alcohol	ug/L	500	382	76	70-130	
tert-Butyl Formate	ug/L	400	383	96	70-130	
Toluene	ug/L	50	44.6	89	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

LABORATORY CONTROL SAMPLE: 2528325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2529298 2529299

Parameter	Units	2529298		2529299		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual	
		92422090003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result				MSD Result	RPD		RPD
1,2-Dichloroethane	ug/L	ND	250	250	237	225	95	90	70-130	5	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	5000	5000	4520	4730	90	95	70-130	5	30	
Benzene	ug/L	216	250	250	564	567	139	141	70-130	1	30	M1
Diisopropyl ether	ug/L	ND	250	250	229	231	92	92	70-130	1	30	
Ethanol	ug/L	ND	10000	10000	8510	8620	85	86	70-130	1	30	
Ethyl-tert-butyl ether	ug/L	ND	500	500	452	452	90	90	70-130	0	30	
Ethylbenzene	ug/L	425	250	250	873	877	179	181	70-130	1	30	M1
m&p-Xylene	ug/L	2150	500	500	3590	3590	289	289	70-130	0	30	M1
Methyl-tert-butyl ether	ug/L	ND	250	250	235	241	94	97	70-130	3	30	
Naphthalene	ug/L	377	250	250	762	759	154	153	70-130	0	30	M1
o-Xylene	ug/L	1300	250	250	2120	2120	327	327	70-130	0	30	M1
tert-Amyl Alcohol	ug/L	ND	5000	5000	4630	4810	93	96	70-130	4	30	
tert-Amylmethyl ether	ug/L	ND	500	500	490	492	98	98	70-130	0	30	
tert-Butyl Alcohol	ug/L	ND	2500	2500	1950	2030	78	81	70-130	4	30	
tert-Butyl Formate	ug/L	ND	2000	2000	1840	1790	92	90	70-130	3	30	
Toluene	ug/L	899	250	250	1490	1510	238	243	70-130	1	30	M1
Xylene (Total)	ug/L	3450	750	750	5710	5710	302	301	70-130	0	30	MS
1,2-Dichloroethane-d4 (S)	%						90	91	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

QC Batch: 465030 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92422212002, 92422212004, 92422212005, 92422212010, 92422212011, 92422212012, 92422212016, 92422212017, 92422212018

METHOD BLANK: 2529060 Matrix: Water  
 Associated Lab Samples: 92422212002, 92422212004, 92422212005, 92422212010, 92422212011, 92422212012, 92422212016, 92422212017, 92422212018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/23/19 11:31	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/23/19 11:31	
Benzene	ug/L	ND	5.0	1.7	03/23/19 11:31	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/23/19 11:31	
Ethanol	ug/L	ND	200	144	03/23/19 11:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/23/19 11:31	
Ethylbenzene	ug/L	ND	5.0	1.8	03/23/19 11:31	
m&p-Xylene	ug/L	ND	10.0	4.1	03/23/19 11:31	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/23/19 11:31	
Naphthalene	ug/L	ND	5.0	2.1	03/23/19 11:31	
o-Xylene	ug/L	ND	5.0	2.0	03/23/19 11:31	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/23/19 11:31	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/23/19 11:31	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/23/19 11:31	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/23/19 11:31	
Toluene	ug/L	ND	5.0	2.0	03/23/19 11:31	
Xylene (Total)	ug/L	ND	5.0	5.0	03/23/19 11:31	
1,2-Dichloroethane-d4 (S)	%	103	70-130		03/23/19 11:31	
4-Bromofluorobenzene (S)	%	107	70-130		03/23/19 11:31	
Toluene-d8 (S)	%	111	70-130		03/23/19 11:31	

LABORATORY CONTROL SAMPLE: 2529061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.4	105	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	797	80	70-130	
Benzene	ug/L	50	53.0	106	70-130	
Diisopropyl ether	ug/L	50	58.9	118	70-130	
Ethanol	ug/L	2000	2000	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
Ethylbenzene	ug/L	50	49.7	99	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	56.1	112	70-130	
Naphthalene	ug/L	50	45.7	91	70-130	
o-Xylene	ug/L	50	49.7	99	70-130	
tert-Amyl Alcohol	ug/L	1000	818	82	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	500	100	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

LABORATORY CONTROL SAMPLE: 2529061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	440	110	70-130	
Toluene	ug/L	50	49.5	99	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2529426 2529427

Parameter	Units	92422212004		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	Result					
1,2-Dichloroethane	ug/L	ND	4000	4000	3680	3770	92	94	70-130	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	80000	80000	73800	75600	92	95	70-130	2	30	
Benzene	ug/L	1600	4000	4000	5490	5620	97	101	70-130	3	30	
Diisopropyl ether	ug/L	ND	4000	4000	3750	3720	94	93	70-130	1	30	
Ethanol	ug/L	ND	160000	160000	141000	145000	88	91	70-130	3	30	
Ethyl-tert-butyl ether	ug/L	ND	8000	8000	7120	7320	89	91	70-130	3	30	
Ethylbenzene	ug/L	1610	4000	4000	5710	5670	102	101	70-130	1	30	
m&p-Xylene	ug/L	8150	8000	8000	15800	16000	95	98	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	4000	4000	3840	3810	96	95	70-130	1	30	
Naphthalene	ug/L	1450	4000	4000	4870	5000	85	89	70-130	3	30	
o-Xylene	ug/L	4190	4000	4000	8230	8320	101	103	70-130	1	30	
tert-Amyl Alcohol	ug/L	ND	80000	80000	75900	77000	95	96	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	8000	8000	7850	8030	98	100	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	40000	40000	30800	31400	77	79	70-130	2	30	
tert-Butyl Formate	ug/L	ND	32000	32000	31900	32700	100	102	70-130	2	30	
Toluene	ug/L	18400	4000	4000	18900	19000	12	16	70-130	1	30 M1	
Xylene (Total)	ug/L	12300	12000	12000	24000	24300	97	100	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						91	91	70-130			
4-Bromofluorobenzene (S)	%						97	96	70-130			
Toluene-d8 (S)	%						96	95	70-130			

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

QC Batch: 465051 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92422212019, 92422212020, 92422212021, 92422212022, 92422212023, 92422212024, 92422212031, 92422212032, 92422212033

METHOD BLANK: 2529136 Matrix: Water  
 Associated Lab Samples: 92422212019, 92422212020, 92422212021, 92422212022, 92422212023, 92422212024, 92422212031, 92422212032, 92422212033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/23/19 22:11	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/23/19 22:11	
Benzene	ug/L	ND	5.0	1.7	03/23/19 22:11	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/23/19 22:11	
Ethanol	ug/L	ND	200	144	03/23/19 22:11	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/23/19 22:11	
Ethylbenzene	ug/L	ND	5.0	1.8	03/23/19 22:11	
m&p-Xylene	ug/L	ND	10.0	4.1	03/23/19 22:11	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/23/19 22:11	
Naphthalene	ug/L	ND	5.0	2.1	03/23/19 22:11	
o-Xylene	ug/L	ND	5.0	2.0	03/23/19 22:11	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/23/19 22:11	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/23/19 22:11	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/23/19 22:11	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/23/19 22:11	
Toluene	ug/L	ND	5.0	2.0	03/23/19 22:11	
Xylene (Total)	ug/L	ND	5.0	5.0	03/23/19 22:11	
1,2-Dichloroethane-d4 (S)	%	104	70-130		03/23/19 22:11	
4-Bromofluorobenzenē (S)	%	103	70-130		03/23/19 22:11	
Toluene-d8 (S)	%	112	70-130		03/23/19 22:11	

LABORATORY CONTROL SAMPLE: 2529137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.9	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	709	71	70-130	
Benzene	ug/L	50	48.7	97	70-130	
Diisopropyl ether	ug/L	50	54.3	109	70-130	
Ethanol	ug/L	2000	1790	89	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.9	99	70-130	
Ethylbenzene	ug/L	50	45.0	90	70-130	
m&p-Xylene	ug/L	100	89.2	89	70-130	
Methyl-tert-butyl ether	ug/L	50	50.1	100	70-130	
Naphthalene	ug/L	50	42.6	85	70-130	
o-Xylene	ug/L	50	44.9	90	70-130	
tert-Amyl Alcohol	ug/L	1000	752	75	70-130	
tert-Amylmethyl ether	ug/L	100	93.8	94	70-130	
tert-Butyl Alcohol	ug/L	500	458	92	70-130	

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### QUALITY CONTROL DATA

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

LABORATORY CONTROL SAMPLE: 2529137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	408	102	70-130	
Toluene	ug/L	50	45.8	92	70-130	
Xylene (Total)	ug/L	150	134	89	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2530068 2530069

Parameter	Units	2530068		2530069		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		92422212031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
1,2-Dichloroethane	ug/L	ND	500	500	480	438	96	88	70-130	9	30
3,3-Dimethyl-1-Butanol	ug/L	ND	10000	10000	8750	8250	88	83	70-130	6	30
Benzene	ug/L	597	500	500	990	944	79	69	70-130	5	30 M1
Diisopropyl ether	ug/L	ND	500	500	452	421	90	84	70-130	7	30
Ethanol	ug/L	ND	20000	20000	17200	16100	86	81	70-130	6	30
Ethyl-tert-butyl ether	ug/L	ND	1000	1000	869	834	87	83	70-130	4	30
Ethylbenzene	ug/L	604	500	500	998	954	79	70	70-130	5	30
m&p-Xylene	ug/L	1870	1000	1000	2440	2340	57	47	70-130	4	30 M1
Methyl-tert-butyl ether	ug/L	ND	500	500	467	444	93	89	70-130	5	30
Naphthalene	ug/L	477	500	500	1050	1000	114	105	70-130	4	30
o-Xylene	ug/L	918	500	500	1210	1160	59	48	70-130	4	30 M1
tert-Amyl Alcohol	ug/L	ND	10000	10000	9600	9060	96	91	70-130	6	30
tert-Amylmethyl ether	ug/L	ND	1000	1000	973	916	97	92	70-130	6	30
tert-Butyl Alcohol	ug/L	ND	5000	5000	3790	3570	76	71	70-130	6	30
tert-Butyl Formate	ug/L	ND	4000	4000	3750	3430	94	86	70-130	9	30
Toluene	ug/L	4310	500	500	3060	2950	-251	-272	70-130	4	30 M1
Xylene (Total)	ug/L	2790	1500	1500	3650	3500	58	47	70-130	4	30 MS
1,2-Dichloroethane-d4 (S)	%						92	91	70-130		
4-Bromofluorobenzene (S)	%						97	98	70-130		
Toluene-d8 (S)	%						95	95	70-130		

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

QC Batch: 465224 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92422212001

METHOD BLANK: 2529701 Matrix: Water  
 Associated Lab Samples: 92422212001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/25/19 13:43	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/25/19 13:43	
Benzene	ug/L	ND	5.0	1.7	03/25/19 13:43	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/25/19 13:43	
Ethanol	ug/L	ND	200	144	03/25/19 13:43	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/25/19 13:43	
Ethylbenzene	ug/L	ND	5.0	1.8	03/25/19 13:43	
m&p-Xylene	ug/L	ND	10.0	4.1	03/25/19 13:43	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/25/19 13:43	
Naphthalene	ug/L	ND	5.0	2.1	03/25/19 13:43	
o-Xylene	ug/L	ND	5.0	2.0	03/25/19 13:43	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/25/19 13:43	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/25/19 13:43	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/25/19 13:43	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/25/19 13:43	
Toluene	ug/L	ND	5.0	2.0	03/25/19 13:43	
Xylene (Total)	ug/L	ND	5.0	5.0	03/25/19 13:43	
1,2-Dichloroethane-d4 (S)	%	96	70-130		03/25/19 13:43	
4-Bromofluorobenzene (S)	%	99	70-130		03/25/19 13:43	
Toluene-d8 (S)	%	97	70-130		03/25/19 13:43	

LABORATORY CONTROL SAMPLE: 2529702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.5	85	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	950	95	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Diisopropyl ether	ug/L	50	46.3	93	70-130	
Ethanol	ug/L	2000	1720	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	87.7	88	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	97.4	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.7	95	70-130	
Naphthalene	ug/L	50	50.0	100	70-130	
o-Xylene	ug/L	50	50.0	100	70-130	
tert-Amyl Alcohol	ug/L	1000	937	94	70-130	
tert-Amylmethyl ether	ug/L	100	96.3	96	70-130	
tert-Butyl Alcohol	ug/L	500	388	78	70-130	
tert-Butyl Formate	ug/L	400	397	99	70-130	
Toluene	ug/L	50	47.5	95	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

LABORATORY CONTROL SAMPLE: 2529702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2529703 2529704

Parameter	Units	2529703		2529704		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92422212001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1,2-Dichloroethane	ug/L	ND	400	400	397	360	99	90	70-130	10	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	8000	8000	7670	7390	96	92	70-130	4	30	
Benzene	ug/L	442	400	400	866	843	106	100	70-130	3	30	
Diisopropyl ether	ug/L	ND	400	400	387	359	97	90	70-130	7	30	
Ethanol	ug/L	ND	16000	16000	14500	13700	91	85	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	800	800	753	674	94	84	70-130	11	30	
Ethylbenzene	ug/L	399	400	400	856	810	114	103	70-130	5	30	
m&p-Xylene	ug/L	1120	800	800	2030	1930	114	102	70-130	5	30	
Methyl-tert-butyl ether	ug/L	ND	400	400	399	361	100	90	70-130	10	30	
Naphthalene	ug/L	535	400	400	966	942	108	102	70-130	3	30	
o-Xylene	ug/L	541	400	400	996	949	114	102	70-130	5	30	
tert-Amyl Alcohol	ug/L	ND	8000	8000	8140	7910	102	99	70-130	3	30	
tert-Amylmethyl ether	ug/L	ND	800	800	819	763	102	95	70-130	7	30	
tert-Butyl Alcohol	ug/L	ND	4000	4000	3640	3430	91	86	70-130	6	30	
tert-Butyl Formate	ug/L	ND	3200	3200	2490	2240	78	70	70-130	11	30	
Toluene	ug/L	2040	400	400	2460	2400	105	90	70-130	3	30	
Xylene (Total)	ug/L	1660	1200	1200	3030	2880	114	102	70-130	5	30	
1,2-Dichloroethane-d4 (S)	%						92	90	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						95	95	70-130			

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

QC Batch: 465237 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92422212007

METHOD BLANK: 2529751 Matrix: Water  
 Associated Lab Samples: 92422212007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/25/19 13:55	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/25/19 13:55	
Benzene	ug/L	ND	5.0	1.7	03/25/19 13:55	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/25/19 13:55	
Ethanol	ug/L	ND	200	144	03/25/19 13:55	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/25/19 13:55	
Ethylbenzene	ug/L	ND	5.0	1.8	03/25/19 13:55	
m&p-Xylene	ug/L	ND	10.0	4.1	03/25/19 13:55	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/25/19 13:55	
Naphthalene	ug/L	ND	5.0	2.1	03/25/19 13:55	
o-Xylene	ug/L	ND	5.0	2.0	03/25/19 13:55	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/25/19 13:55	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/25/19 13:55	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/25/19 13:55	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/25/19 13:55	
Toluene	ug/L	ND	5.0	2.0	03/25/19 13:55	
Xylene (Total)	ug/L	ND	5.0	5.0	03/25/19 13:55	
1,2-Dichloroethane-d4 (S)	%	106	70-130		03/25/19 13:55	
4-Bromofluorobenzene (S)	%	106	70-130		03/25/19 13:55	
Toluene-d8 (S)	%	112	70-130		03/25/19 13:55	

LABORATORY CONTROL SAMPLE: 2529752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.3	105	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	824	82	70-130	
Benzene	ug/L	50	51.2	102	70-130	
Diisopropyl ether	ug/L	50	59.5	119	70-130	
Ethanol	ug/L	2000	2040	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	118	118	70-130	
Ethylbenzene	ug/L	50	48.8	98	70-130	
m&p-Xylene	ug/L	100	97.2	97	70-130	
Methyl-tert-butyl ether	ug/L	50	55.8	112	70-130	
Naphthalene	ug/L	50	44.3	89	70-130	
o-Xylene	ug/L	50	47.4	95	70-130	
tert-Amyl Alcohol	ug/L	1000	827	83	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	534	107	70-130	
tert-Butyl Formate	ug/L	400	399	100	70-130	
Toluene	ug/L	50	47.4	95	70-130	

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

LABORATORY CONTROL SAMPLE: 2529752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	145	96	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2529753 2529754

Parameter	Units	92422212007		2529753		2529754		% Rec	% Rec	% Rec Limits	Max		Qual
		Result	Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				RPD	RPD	
1,2-Dichloroethane	ug/L	ND	5000	5000	6040	5940	121	119	70-130	2	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	100000	100000	76400	78900	76	79	70-130	3	30		
Benzene	ug/L	2410	5000	5000	8720	8550	126	123	70-130	2	30		
Diisopropyl ether	ug/L	ND	5000	5000	5740	5760	115	115	70-130	0	30		
Ethanol	ug/L	ND	200000	200000	214000	219000	107	109	70-130	2	30		
Ethyl-tert-butyl ether	ug/L	ND	10000	10000	10100	10400	101	104	70-130	3	30		
Ethylbenzene	ug/L	2510	5000	5000	7860	7720	107	104	70-130	2	30		
m&p-Xylene	ug/L	9660	10000	10000	20400	20100	107	105	70-130	1	30		
Methyl-tert-butyl ether	ug/L	ND	5000	5000	5590	5700	112	114	70-130	2	30		
Naphthalene	ug/L	613J	5000	5000	5100	5280	90	93	70-130	3	30		
o-Xylene	ug/L	4010	5000	5000	9380	9060	107	101	70-130	3	30		
tert-Amyl Alcohol	ug/L	ND	100000	100000	73000	76300	73	76	70-130	4	30		
tert-Amylmethyl ether	ug/L	ND	10000	10000	9840	9800	98	98	70-130	0	30		
tert-Butyl Alcohol	ug/L	ND	50000	50000	45200	46700	90	93	70-130	3	30		
tert-Butyl Formate	ug/L	ND	40000	40000	32800	34900	82	87	70-130	6	30		
Toluene	ug/L	47000	5000	5000	46800	48000	-4	19	70-130	2	30 M1		
Xylene (Total)	ug/L	13700	15000	15000	29800	29200	107	104	70-130	2	30		
1,2-Dichloroethane-d4 (S)	%						108	108	70-130				
4-Bromofluorobenzene (S)	%						103	98	70-130				
Toluene-d8 (S)	%						103	102	70-130				

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

QC Batch: 465414 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92422212001, 92422212002, 92422212003, 92422212004, 92422212005, 92422212006, 92422212007,  
 92422212008, 92422212009, 92422212010, 92422212011, 92422212012, 92422212013, 92422212014,  
 92422212015, 92422212016

METHOD BLANK: 2530526 Matrix: Water  
 Associated Lab Samples: 92422212001, 92422212002, 92422212003, 92422212004, 92422212005, 92422212006, 92422212007,  
 92422212008, 92422212009, 92422212010, 92422212011, 92422212012, 92422212013, 92422212014,  
 92422212015, 92422212016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	03/27/19 14:27	
1-Chloro-2-bromopropane (S)	%	96	60-140		03/27/19 14:27	

LABORATORY CONTROL SAMPLE & LCSD: 2530527 2530528

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	0.24	0.23	94	92	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				97	96	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2530530 2530531

Parameter	Units	92422212011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.23	0.23	93	92	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						97	97	60-140			

SAMPLE DUPLICATE: 2530529

Parameter	Units	92422081010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.040	0.033	21	20	D6
1-Chloro-2-bromopropane (S)	%	98	107	7		

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

QC Batch: 465415 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92422212017, 92422212018, 92422212019, 92422212020, 92422212021, 92422212022, 92422212023, 92422212024, 92422212025, 92422212026, 92422212027, 92422212028, 92422212029, 92422212030, 92422212031, 92422212032

METHOD BLANK: 2530534 Matrix: Water  
 Associated Lab Samples: 92422212017, 92422212018, 92422212019, 92422212020, 92422212021, 92422212022, 92422212023, 92422212024, 92422212025, 92422212026, 92422212027, 92422212028, 92422212029, 92422212030, 92422212031, 92422212032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	03/26/19 18:47	
1-Chloro-2-bromopropane (S)	%	107	60-140		03/26/19 18:47	

LABORATORY CONTROL SAMPLE & LCSD: 2530535 2530536

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	113	110	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				110	107	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2530538 2530539

Parameter	Units	92422212020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.27	0.28	109	115	60-140	6	20	
1-Chloro-2-bromopropane (S)	%						107	114	60-140			

SAMPLE DUPLICATE: 2530537

Parameter	Units	92422212019 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	107	105	0		

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

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422212

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92422212001	MW-1	EPA 8011	465414	EPA 8011	465520
92422212002	MW-2	EPA 8011	465414	EPA 8011	465520
92422212003	MW-2D	EPA 8011	465414	EPA 8011	465520
92422212004	MW-3	EPA 8011	465414	EPA 8011	465520
92422212005	MW-4	EPA 8011	465414	EPA 8011	465520
92422212006	MW-5	EPA 8011	465414	EPA 8011	465520
92422212007	MW-6	EPA 8011	465414	EPA 8011	465520
92422212008	MW-7	EPA 8011	465414	EPA 8011	465520
92422212009	MW-7D	EPA 8011	465414	EPA 8011	465520
92422212010	MW-8	EPA 8011	465414	EPA 8011	465520
92422212011	MW-9	EPA 8011	465414	EPA 8011	465520
92422212012	MW-10	EPA 8011	465414	EPA 8011	465520
92422212013	MW-11	EPA 8011	465414	EPA 8011	465520
92422212014	MW-13	EPA 8011	465414	EPA 8011	465520
92422212015	MW-14	EPA 8011	465414	EPA 8011	465520
92422212016	MW-14D	EPA 8011	465414	EPA 8011	465520
92422212017	MW-15	EPA 8011	465415	EPA 8011	465521
92422212018	MW-16	EPA 8011	465415	EPA 8011	465521
92422212019	MW-17	EPA 8011	465415	EPA 8011	465521
92422212020	MW-17D	EPA 8011	465415	EPA 8011	465521
92422212021	MW-18	EPA 8011	465415	EPA 8011	465521
92422212022	MW-19	EPA 8011	465415	EPA 8011	465521
92422212023	MW-19D	EPA 8011	465415	EPA 8011	465521
92422212024	MW-20	EPA 8011	465415	EPA 8011	465521
92422212025	SW-1	EPA 8011	465415	EPA 8011	465521
92422212026	SW-2	EPA 8011	465415	EPA 8011	465521
92422212027	SW-3	EPA 8011	465415	EPA 8011	465521
92422212028	SW-4	EPA 8011	465415	EPA 8011	465521
92422212029	SW-5	EPA 8011	465415	EPA 8011	465521
92422212030	DUP-1	EPA 8011	465415	EPA 8011	465521
92422212031	DUP-2	EPA 8011	465415	EPA 8011	465521
92422212032	FIELD BLANK	EPA 8011	465415	EPA 8011	465521
92422212025	SW-1	EPA 8260B	465045		
92422212026	SW-2	EPA 8260B	465045		
92422212027	SW-3	EPA 8260B	465045		
92422212028	SW-4	EPA 8260B	465045		
92422212029	SW-5	EPA 8260B	465045		
92422212030	DUP-1	EPA 8260B	465045		
92422212001	MW-1	EPA 8260B	465224		
92422212002	MW-2	EPA 8260B	465030		
92422212003	MW-2D	EPA 8260B	464925		
92422212004	MW-3	EPA 8260B	465030		
92422212005	MW-4	EPA 8260B	465030		
92422212006	MW-5	EPA 8260B	464925		
92422212007	MW-6	EPA 8260B	465237		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92422212008	MW-7	EPA 8260B	464925		
92422212009	MW-7D	EPA 8260B	464925		
92422212010	MW-8	EPA 8260B	465030		
92422212011	MW-9	EPA 8260B	465030		
92422212012	MW-10	EPA 8260B	465030		
92422212013	MW-11	EPA 8260B	464925		
92422212014	MW-13	EPA 8260B	464925		
92422212015	MW-14	EPA 8260B	464925		
92422212016	MW-14D	EPA 8260B	465030		
92422212017	MW-15	EPA 8260B	465030		
92422212018	MW-16	EPA 8260B	465030		
92422212019	MW-17	EPA 8260B	465051		
92422212020	MW-17D	EPA 8260B	465051		
92422212021	MW-18	EPA 8260B	465051		
92422212022	MW-19	EPA 8260B	465051		
92422212023	MW-19D	EPA 8260B	465051		
92422212024	MW-20	EPA 8260B	465051		
92422212031	DUP-2	EPA 8260B	465051		
92422212032	FIELD BLANK	EPA 8260B	465051		
92422212033	TRIP BLANK	EPA 8260B	465051		

**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical**  
**CHAIN-OF-CUSTODY Analytical Request Document**  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Log MTJL **WO# : 92422212**

**ALL SHADED ARE**

Container Preservative Type \*\*

\*\* 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

Company: **SCDHEC** Billing Information: **PACE-58308**

Address: **2600 Ball St. Columbia, SC 29201**

Report To: **B. Dunn** Email To: **dunn@dhcc.sc.gov**

Copy To: **11577 N Fairbairn Blvd** Site Collection Info/Address: **SC / Jasper**

Customer Project Name/Number: **Burnettes Service Station 18-6691** State: **SC** County/City: **Jasper** Time Zone Collected: **PT**

Phone: **803-848-0671** Site/Facility ID #: **UST-05289** Compliance Monitoring?  Yes  No

Collected By (print): **James Cochran** Purchase Order #: **UST-05289** DW PWS ID #: **8098**

Collected By (signature): **[Signature]** Turnaround Date Required: **12 Day** Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold: **12 Day** Rush:  Same Day  Next Day  13 Day  14 Day  15 Day  Expedite Charges Apply

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analysis	Lab Profile/Line	Lab Sample Receipt Checklist:
			Date	Time	Date	Time					
MV-1	GW	G	3/20/19	3:30				6	X		Odor Sheen
MV-2				6:05					X		No Odor
MV-2D				11:45					X		No Odor
MV-3				1:24					X		Odor
MV-4				2:25					X		No Odor
MV-5				2:40					X		No Odor
MV-6				3:32					X		Odor Sheen
MV-7				3:00					X		No Odor
MV-7D				12:45					X		No Odor
MV-8	GW	G	3/20/19	12:15				6	X		Odor Sheen

Customer Remarks / Special Conditions / Possible Hazards: **mobile bags**

Type of Ice Used:  Wet  Blue  Dry  None

SHORT HOLDS PRESENT (<72 hours):  Y  N  N/A

Packing Material Used: **mobile bags** Lab Tracking #: **2343175**

Radchem sample(s) screened (<500 cpm):  Y  N  NA

Samples received via:  FEDEX  UPS  Client  Courier  Pace Courier

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/20/19** Received by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 7:30**

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 12:55** Received by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 12:55**

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 12:55** Received by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 12:55**

Lab Sample Temperature Info: Temp Blank Received:  Y  N  NA Therm ID#: **18-02-010** Cooler 1 Temp Upon Receipt: **2** °C Cooler 1 Therm Corr. Factor: **0** °C Cooler 1 Corrected Temp: **2** °C

Trip Blank Received:  Y  N  NA HCL MeOH TSP Other

Non Conformance(s): YES / NO Page: **1** of: **1**

**Pace Analytical**  
**CHAIN-OF-CUSTODY Analytical Request Document**  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**LAB USE ONLY - Affix Workorder**  
**WO#: 92422212**  
**PM: AMB Due Date: 03/28/19**  
**CLIENT: 92-SCDHEC**

**ALL SHADED**  
 Container Preservative Type \*  
 3 3

Company: **SCDHEC** Billing Information: **PACE - 55308**  
 Address: **2600 Paul St. Columbia, SC 29201**  
 Report To: **R. Dunn** Email To: **dunnra@other.scdhec.gov**  
 Copy To: Site Collection Info/Address: **11577 W Jacob Street Blvd**

Customer Project Name/Number: **Burnetts Service Station / 18-6691** State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [X] ET**

Phone: **803-848-0671** Site/Facility ID #: **JST-05289** Compliance Monitoring? **[ ] Yes [ ] No**  
 Email: **[Redacted]** DW PWS ID #: **[Redacted]** DW Location Code: **[Redacted]**

Collected By (print): **James Cochran** Purchase Order #: **[Redacted]** Quote #: **[Redacted]**  
 Collected By (signature): **[Signature]** Turnaround Date Required: **[Redacted]** 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: **[Redacted]**

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses	Lab Profile/Line:
			Date	Time	Date	Time				
MW-9	GW	G	3/20/19	13:10				6	X	No Odor
MW-10				11:25					X	No Odor
MW-11				12:25					X	No Odor
MW-12				16:00					X	No Odor
MW-14				11:01					X	No Odor
MW-14D				10:45					X	No Odor
MW-15				10:10					X	No Odor
MW-16				10:24					X	No Odor
MW-17				11:00					X	No Odor
MW-17D	GW	G	3/20/19	10:44				6	X	No Odor

Customer Remarks / Special Conditions / Possible Hazards: **TYPE OF ICE USED: Wet Blue Dry None** SHORT HOLDS PRESENT (<72 hours): **Y N N/A**  
 Packing Material Used: **[Redacted]** Lab Tracking #: **2343176**  
 Radchem sample(s) screened (<500 cpm): **Y N NA** Samples received via: **FEDEX UPS Client Courier Pace Courier**

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/20/19** Received by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 7:30**  
 Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 12:55** Received by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 12:55**

Lab Sample Temperature Info:  
 Temp Blank Received: **Y N NA**  
 Therm ID#: **[Redacted]**  
 Cooler 1 Temp Upon Receipt: **[Redacted] oC**  
 Cooler 1 Therm Corr. Factor: **[Redacted] oC**  
 Cooler 1 Corrected Temp: **[Redacted] oC**  
 Comments: **[Redacted]**

Trip Blank Received: **Y N NA**  
 HCL MeOH TSP Other: **[Redacted]**

Non Conformance(s): **Page: [Redacted]**  
 YES / NO of: **[Redacted]**



**Pace Analytical**  
**CHAIN-OF-CUSTODY Analytical Request Document**  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**LAB USE ONLY - Affix Workorder/Lab Sample #** **MTJ** **WO# : 92422212**  
**ALL SHADED AI** **PH: AMB** **Due Date: 03/28/19**  
**CLIENT: 92-SCDHEC**

Company: **SCDHEC** Billing Information: **PACE - 58 308**  
 Address: **2600 Bell St. Columbia, SC 29201**  
 Report To: **R. Dunn** Email To: **dunn@pace-sc.com**  
 Copy To: Site Collection Info/Address: **11577 N Jacob's Mountain Blvd SC / Jasper**

Customer Project Name/Number: **Burnetts Service Station / 18-6691** State: \_\_\_\_\_ County/City: \_\_\_\_\_ Time Zone Collected: \_\_\_\_\_  
 Phone: **803-898-0571** Site/Facility ID #: **US-05289** Compliance Monitoring?  Yes  No  
 Email: \_\_\_\_\_ Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_  
 Collected By (print): **James Cochran** Quote #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_  
 Collected By (signature): \_\_\_\_\_ Turnaround Date Required: \_\_\_\_\_ Immediately Packed on Ice:  Yes  No  
 Sample Disposal: \_\_\_\_\_ Rush:  Same Day  Next Day Field Filtered (if applicable):  Yes  No  
 Archive: \_\_\_\_\_  2 Day  3 Day  4 Day  5 Day Analysis: \_\_\_\_\_  
 Hold: \_\_\_\_\_ (Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses	Lab Profile/Line:
			Date	Time	Date	Time				
MU-18	GW	G	3/20/19	10:25				6	X	No Odor
MU-19				11:40						No Odor
MU-19D				11:20						No Odor
MU-20				10:10						No Odor
SW-1				3:55						LPL'S
SW-2				4:00						LPL'S
SW-3				4:05						LPL'S
SW-4				4:15						LPL'S
SW-5				4:05						LPL'S
DWP-1	GW	G	3/20/19	12:40				6	X	LPL'S

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_  
 Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Packing Material Used: \_\_\_\_\_ Lab Tracking #: **2343177**  
 Radchem sample(s) screened (<500 cpm): Y N NA Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) **Carol A. White** Date/Time: **3/20/19** Received by/Company: (Signature) **R. Dunn** Date/Time: **3/21/19 12:30**  
 Relinquished by/Company: (Signature) **R. Dunn** Date/Time: **3/21/19 12:55** Received by/Company: (Signature) **James Cochran** Date/Time: **3/21/19 12:55**  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

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: **92422212**

Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
 Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
 Comments: \_\_\_\_\_

Trip Blank Received: Y N NA  
 HCL MeOH TSP Other \_\_\_\_\_

Non Conformance(s): \_\_\_\_\_ Page: \_\_\_\_\_  
 YES / NO of: \_\_\_\_\_

**CHAIN-OF-CUSTODY Analytical Request Document**  
 Pace Analytical  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workord  
**WO#: 92422212**  
 PM: AMB Due Date: 03/28/19  
 CLIENT: 92-SCDHEC  
**ALL SHADED**  
 Container Preservative Type \*

Company: **SCDHEC** Billing Information: **PACE - 58308**  
 Address: **2608 Bull St. Columbia, SC 29201**  
 Report To: **R. Dunn** Email To: **dunn@hec.sc.gov**  
 Copy To: Site Collection Info/Address: **11577 N Jacob Smart Blvd**  
 Customer Project Name/Number: **Bunnetts Service Station / 18-6691** State: **SC / Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**  
 Phone: **803-898-0621** Site/Facility ID #: **USY-05289** Compliance Monitoring? **[ ] Yes [ ] No**  
 Email: **James Cochran** Purchase Order #: **[ ] Yes [ ] No**  
 Collected By (print): **James Cochran** Quote #: **[ ] Yes [ ] No**  
 Collected By (signature): **[Signature]** Turnaround Date Required: **[ ] 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: **[ ] Yes [ ] No**

\*\* 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	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: <b>92422212</b>

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
<b>DW-2</b>	<b>GW</b>	<b>G</b>	<b>3/21/19</b>	<b>13:30</b>			<b>6</b>	<b>X</b>
<b>Field Blank</b>	<b>GW</b>	<b>G</b>	<b>3/21/19</b>	<b>14:30</b>			<b>6</b>	<b>X</b>
<b>Trip Blank</b>	<b>GW</b>	<b>G</b>	<b>3/21/19</b>	<b>14:30</b>			<b>2</b>	<b>X</b>

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: <b>Wet Blue Dry None</b>	SHORT HOLDS PRESENT (<72 hours): <b>Y N N/A</b>
	Packing Material Used:	Lab Tracking #: <b>2343142</b>
	Radchem sample(s) screened (<500 cpm): <b>Y N NA</b>	Samples received via: <b>FEDEX UPS Client Courier Pace Courier</b>

Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/20/19**  
 Relinquished by/Company: (Signature) **[Signature]** Date/Time: **3/21/19 12:55**  
 Relinquished by/Company: (Signature) **[Signature]** Date/Time: **[Signature]**

Lab Sample Temperature Info:  
 Temp Blank Received: **Y N NA**  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
 Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
 Comments:  
**Odor Screen**  
**FB**  
**TB**  
**571**  
**032**  
**032**

April 09, 2019



Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

*Angela M. Baioni*

Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alaska DEC- CS/UST/LUST  
Alabama Certification #: 41320  
Arizona Certification# AZ0819  
Colorado Certification: FL NELAC Reciprocity  
Connecticut Certification #: PH-0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236

Montana Certification #: Cert 0074  
Nebraska Certification: NE-OS-28-14  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### SAMPLE SUMMARY

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92422195001	WSW-1	Water	03/20/19 14:05	03/21/19 07:30
92422195002	WSW-3	Water	03/20/19 14:25	03/21/19 07:30
92422195003	DUP-1	Water	03/20/19 14:06	03/21/19 07:30
92422195004	FIELD BLANK	Water	03/20/19 14:30	03/21/19 07:30
92422195005	TRIP BLANK	Water	03/20/19 14:30	03/21/19 07:30

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**SAMPLE ANALYTE COUNT**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422195

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92422195001	WSW-1	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	CL	11	PASI-C
92422195002	WSW-3	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	CL	11	PASI-C
92422195003	DUP-1	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	CL	11	PASI-C
92422195004	FIELD BLANK	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	NSCQ	11	PASI-C
92422195005	TRIP BLANK	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	NSCQ	11	PASI-C

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422195

Sample: WSW-1		Lab ID: 92422195001		Collected: 03/20/19 14:05		Received: 03/21/19 07:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.012	1	03/28/19 09:20	03/28/19 21:26	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	03/28/19 09:20	03/28/19 21:26	301-79-56	
<b>524.2 MSV</b>		Analytical Method: EPA 524.2							
Benzene	ND	ug/L	0.50	0.25	1		04/03/19 14:30	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		04/03/19 14:30	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		04/03/19 14:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		04/03/19 14:30	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		04/03/19 14:30	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		04/03/19 14:30	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		04/03/19 14:30	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	110	%	70-130		1		04/03/19 14:30	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		04/03/19 14:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		04/03/19 14:30	17060-07-0	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/26/19 09:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/26/19 09:33	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/26/19 09:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/26/19 09:33	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/26/19 09:33	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/26/19 09:33	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/26/19 09:33	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/26/19 09:33	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/26/19 09:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/26/19 09:33	17060-07-0	
Toluene-d8 (S)	115	%	70-130		1		03/26/19 09:33	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422195

Sample: WSW-3      Lab ID: 92422195002      Collected: 03/20/19 14:25      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/28/19 09:20	03/28/19 21:45	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	70-130		1	03/28/19 09:20	03/28/19 21:45	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		04/03/19 14:54	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		04/03/19 14:54	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		04/03/19 14:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		04/03/19 14:54	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		04/03/19 14:54	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		04/03/19 14:54	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		04/03/19 14:54	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		04/03/19 14:54	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		04/03/19 14:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		04/03/19 14:54	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/26/19 09:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/26/19 09:51	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/26/19 09:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/26/19 09:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/26/19 09:51	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/26/19 09:51	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/26/19 09:51	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/26/19 09:51	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108	%	70-130		1		03/26/19 09:51	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/26/19 09:51	17060-07-0	
Toluene-d8 (S)	118	%	70-130		1		03/26/19 09:51	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422195

Sample: DUP-1 Lab ID: 92422195003 Collected: 03/20/19 14:06 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/28/19 09:20	03/28/19 22:05	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	70-130		1	03/28/19 09:20	03/28/19 22:05	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		04/03/19 15:17	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		04/03/19 15:17	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		04/03/19 15:17	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		04/03/19 15:17	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		04/03/19 15:17	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		04/03/19 15:17	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		04/03/19 15:17	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	111	%	70-130		1		04/03/19 15:17	460-00-4	HS
Toluene-d8 (S)	96	%	70-130		1		04/03/19 15:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/03/19 15:17	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/26/19 10:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/26/19 10:09	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/26/19 10:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/26/19 10:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/26/19 10:09	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/26/19 10:09	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/26/19 10:09	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/26/19 10:09	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/26/19 10:09	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/26/19 10:09	17060-07-0	
Toluene-d8 (S)	118	%	70-130		1		03/26/19 10:09	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

Sample: FIELD BLANK      Lab ID: 92422195004      Collected: 03/20/19 14:30      Received: 03/21/19 07:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	03/28/19 09:20	03/28/19 22:25	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	03/28/19 09:20	03/28/19 22:25	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		04/03/19 15:41	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		04/03/19 15:41	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		04/03/19 15:41	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		04/03/19 15:41	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		04/03/19 15:41	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		04/03/19 15:41	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		04/03/19 15:41	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108	%	70-130		1		04/03/19 15:41	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		04/03/19 15:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		04/03/19 15:41	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/26/19 03:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/26/19 03:50	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/26/19 03:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/26/19 03:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/26/19 03:50	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/26/19 03:50	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/26/19 03:50	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/26/19 03:50	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/26/19 03:50	460-00-4	
1,2-Dichloroethane-d4 (S)	73	%	70-130		1		03/26/19 03:50	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/26/19 03:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: Burnette's Svc 05289/58308

Pace Project No.: 92422195

Sample: TRIP BLANK Lab ID: 92422195005 Collected: 03/20/19 14:30 Received: 03/21/19 07:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		04/03/19 16:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		04/03/19 16:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		04/03/19 16:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		04/03/19 16:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		04/03/19 16:05	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		04/03/19 16:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		04/03/19 16:05	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	111	%	70-130		1		04/03/19 16:05	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		04/03/19 16:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/03/19 16:05	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/26/19 01:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/26/19 01:41	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/26/19 01:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/26/19 01:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/26/19 01:41	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/26/19 01:41	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/26/19 01:41	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/26/19 01:41	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/26/19 01:41	460-00-4	
1,2-Dichloroethane-d4 (S)	74	%	70-130		1		03/26/19 01:41	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/26/19 01:41	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Burnette's Svc 05289/58308

Pace Project No. 92422195

QC Batch: 528221 Analysis Method: EPA 524.2  
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
 Associated Lab Samples: 92422195001, 92422195002, 92422195003, 92422195004, 92422195005

METHOD BLANK: 2858880 Matrix: Water  
 Associated Lab Samples: 92422195001, 92422195002, 92422195003, 92422195004, 92422195005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	04/03/19 12:08	
Benzene	ug/L	ND	0.50	0.25	04/03/19 12:08	
Ethylbenzene	ug/L	ND	0.50	0.25	04/03/19 12:08	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	04/03/19 12:08	
Naphthalene	ug/L	ND	0.50	0.25	04/03/19 12:08	
Toluene	ug/L	ND	0.50	0.25	04/03/19 12:08	
Xylene (Total)	ug/L	ND	0.50	0.25	04/03/19 12:08	
1,2-Dichloroethane-d4 (S)	%	107	70-130		04/03/19 12:08	
4-Bromofluorobenzene (S)	%	110	70-130		04/03/19 12:08	
Toluene-d8 (S)	%	97	70-130		04/03/19 12:08	

Parameter	Units	2858881		2858882		% Rec	LCS	LCS	% Rec	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	% Rec							
1,2-Dichloroethane	ug/L	40	40.4	39.6	101	99	70-130	2	40			
Benzene	ug/L	40	39.3	38.4	98	96	70-130	2	40			
Ethylbenzene	ug/L	40	39.4	39.3	98	98	70-130	0	40			
Methyl-tert-butyl ether	ug/L	40	36.6	36.2	91	90	70-130	1	40			
Naphthalene	ug/L	40	33.1	33.2	83	83	70-130	0	40			
Toluene	ug/L	40	37.2	37.0	93	93	70-130	1	40			
Xylene (Total)	ug/L	120	127	123	105	102	70-130	3	40			
1,2-Dichloroethane-d4 (S)	%				100	99	70-130					
4-Bromofluorobenzene (S)	%				102	105	70-130					
Toluene-d8 (S)	%				98	97	70-130					

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

QC Batch: 465328 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92422195004, 92422195005

METHOD BLANK: 2530188 Matrix: Water  
Associated Lab Samples: 92422195004, 92422195005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/25/19 23:51	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/25/19 23:51	
Ethanol	ug/L	ND	200	98.8	03/25/19 23:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/25/19 23:51	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/25/19 23:51	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/25/19 23:51	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/25/19 23:51	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/25/19 23:51	
1,2-Dichloroethane-d4 (S)	%	80	70-130		03/25/19 23:51	
4-Bromofluorobenzene (S)	%	97	70-130		03/25/19 23:51	
Toluene-d8 (S)	%	105	70-130		03/25/19 23:51	

LABORATORY CONTROL SAMPLE: 2530189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	924	92	70-130	
Diisopropyl ether	ug/L	50	49.6	99	70-130	
Ethanol	ug/L	2000	1870	93	70-130	
Ethyl-tert-butyl ether	ug/L	100	88.2	88	70-130	
tert-Amyl Alcohol	ug/L	1000	811	81	70-130	
tert-Amylmethyl ether	ug/L	100	91.1	91	70-130	
tert-Butyl Alcohol	ug/L	500	388	78	70-130	
tert-Butyl Formate	ug/L	400	360	90	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 2530191

Parameter	Units	92422518002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	391	98	70-130	
Diisopropyl ether	ug/L	ND	20	18.7	93	70-130	
Ethanol	ug/L	ND	800	845	106	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	32.5	81	70-130	
tert-Amyl Alcohol	ug/L	ND	400	319	80	70-130	
tert-Amylmethyl ether	ug/L	ND	40	34.8	87	70-130	
tert-Butyl Alcohol	ug/L	ND	200	224	112	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 P5	

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### QUALITY CONTROL DATA

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

MATRIX SPIKE SAMPLE: 2530191		92422518002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				95	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 2530190

Parameter	Units	92422518001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	78	72			
4-Bromofluorobenzene (S)	%	93	95			
Toluene-d8 (S)	%	106	106			

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422195

QC Batch: 465329 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92422195001, 92422195002, 92422195003

METHOD BLANK: 2530192 Matrix: Water  
 Associated Lab Samples: 92422195001, 92422195002, 92422195003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/26/19 03:53	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/26/19 03:53	
Ethanol	ug/L	ND	200	98.8	03/26/19 03:53	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/26/19 03:53	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/26/19 03:53	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/26/19 03:53	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/26/19 03:53	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/26/19 03:53	
1,2-Dichloroethane-d4 (S)	%	103	70-130		03/26/19 03:53	
4-Bromofluorobenzene (S)	%	105	70-130		03/26/19 03:53	
Toluene-d8 (S)	%	120	70-130		03/26/19 03:53	

LABORATORY CONTROL SAMPLE: 2530193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	848	85	70-130	
Diisopropyl ether	ug/L	50	64.7	129	70-130	
Ethanol	ug/L	2000	2220	111	70-130	
Ethyl-tert-butyl ether	ug/L	100	123	123	70-130	
tert-Amyl Alcohol	ug/L	1000	852	85	70-130	
tert-Amylmethyl ether	ug/L	100	114	114	70-130	
tert-Butyl Alcohol	ug/L	500	564	113	70-130	
tert-Butyl Formate	ug/L	400	495	124	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 2530195

Parameter	Units	92422261002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	254	63	70-130	M1
Diisopropyl ether	ug/L	ND	20	18.8	94	70-130	
Ethanol	ug/L	ND	800	812	102	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	32.3	81	70-130	
tert-Amyl Alcohol	ug/L	ND	400	279	70	70-130	
tert-Amylmethyl ether	ug/L	ND	40	33.1	83	70-130	
tert-Butyl Alcohol	ug/L	ND	200	240	120	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

MATRIX SPIKE SAMPLE: 2530195		92422261002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				105	70-130	

SAMPLE DUPLICATE: 2530194		92422261001	Dup	RPD	Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	106	104			
4-Bromofluorobenzene (S)	%	107	106			
Toluene-d8 (S)	%	114	116			

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**QUALITY CONTROL DATA**

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

QC Batch: 465959 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92422195001, 92422195002, 92422195003, 92422195004

METHOD BLANK: 2532972 Matrix: Water  
Associated Lab Samples: 92422195001, 92422195002, 92422195003, 92422195004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	03/28/19 15:50	
1-Chloro-2-bromopropane (S)	%	100	70-130		03/28/19 15:50	

LABORATORY CONTROL SAMPLE & LCSD: 2532973 2532974

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	0.25	99	101	70-130	3	20	
1-Chloro-2-bromopropane (S)	%				97	97	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2532976 2532977

Parameter	Units	92422087020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.25	0.25	100	100	65-135	0	20	
1-Chloro-2-bromopropane (S)	%						98	96	70-130			

SAMPLE DUPLICATE: 2532975

Parameter	Units	92422087019 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	103			

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## QUALIFIERS

Project: Burnette's Svc 05289/58308  
Pace Project No.: 92422195

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Burnette's Svc 05289/58308  
 Pace Project No.: 92422195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92422195001	WSW-1	EPA 504.1	465959	EPA 504.1	466074
92422195002	WSW-3	EPA 504.1	465959	EPA 504.1	466074
92422195003	DUP-1	EPA 504.1	465959	EPA 504.1	466074
92422195004	FIELD BLANK	EPA 504.1	465959	EPA 504.1	466074
92422195001	WSW-1	EPA 524.2	528221		
92422195002	WSW-3	EPA 524.2	528221		
92422195003	DUP-1	EPA 524.2	528221		
92422195004	FIELD BLANK	EPA 524.2	528221		
92422195005	TRIP BLANK	EPA 524.2	528221		
92422195001	WSW-1	EPA 8260B	465329		
92422195002	WSW-3	EPA 8260B	465329		
92422195003	DUP-1	EPA 8260B	465329		
92422195004	FIELD BLANK	EPA 8260B	465328		
92422195005	TRIP BLANK	EPA 8260B	465328		

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**CHAIN-OF-CUSTODY Analytical Request Document**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Work

**WO#: 92422195**



ALL SHADI 92422195

Page 18 of 18

Company: **SCDHEC**

Address: **2600 Ball St, Columbia, SC 29201**

Report To: **R. Dunn**

Copy To:

Customer Project Name/Number: **Waters Service Station - WSW**

State: **SC** County/City: **Charleston** Time Zone Collected: **ET**

Phone: **803-888-0671** Site/Facility ID #: **DT-0389**

Compliance Monitoring?  Yes  No

Collected By (print): **James Cochran** Purchase Order #: **Quote #:**

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:

Container Preservative Type: **3 3 8**

\*\* 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	Lab Profile/Line:
504.7	Lab Sample Receipt Checklist:
8260	Custody Seals Present/Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
504.1	Custody Signatures Present <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Collector Signatures Present <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Bottles Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Correct Bottles <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Sufficient Volume <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Samples Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	VOA - Headspace Acceptable <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	USDA Regulated Soils <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Samples in Holding Time <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Residual Chlorine Present <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Cl Strips: _____
	Sample pH Acceptable <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	pH Strips: _____
	Sulfide Present <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
	Lead Acetate Strips: _____
	LAB USE ONLY: Lab Sample # / Comments: <b>92422195</b>

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
WSW-1	DW	G	3/20/19	14:05			9	9
WSW-2								
WSW-3	DW	G	3/20/19	14:25			9	9
WSW-4								
DUP-1	DW	G	3/20/19	14:06			9	9
Field Blank	DW	G	3/20/19	14:30			9	9
Trio Blank	DW	G	3/20/19	14:30			9	9

Customer Remarks / Special Conditions / Possible Hazards: **bubble bags**

Type of Ice Used:  Wet  Blue  Dry  None

SHORT HOLDS PRESENT (<72 hours):  Y  N  NA

Packing Material Used: **bubble bags**

Lab Tracking #: **2342565**

Radchem sample(s) screened (<500cpm):  Y  N  NA

Samples received via:  FEDEX  UPS  Client  Courier  Paco Courier

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **3/20/19** Received by/Company: (Signature) *[Signature]* Date/Time: **3/21/19 7:30**

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **3/21/19 2:55** Received by/Company: (Signature) *[Signature]* Date/Time: **3/21/19 12:55**

Relinquished by/Company: (Signature) *[Signature]* Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Lab Sample Temperature Info:

Temp Blank Received:  Y  N  NA

Therm ID#: **329205**

Cooler 1 Temp Upon Receipt: **5.4** °C

Cooler 1 Therm Corr. Factor: **0** °C

Cooler 1 Corrected Temp: **5.4** °C

Comments:

Trip Blank Received:  Y  N  NA

HCL MeOH TSP Other

Non Conformance(s): \_\_\_\_\_ Page: **1**

YES / NO of: **1**

**Domenico Model**

UST # 05289  
 Site Name: Burnettes Service Station  
 Modeler: Zachary Griffith  
 Date: 4/16/2021

**Transport Parameters**

X <sub>max</sub>	25	ft
Y <sub>max</sub>	0	ft
Z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	25	ft
α <sub>x</sub>	2.010906	ft
α <sub>y</sub>	0.201091	ft
α <sub>z</sub>	1.00E-99	ft

**Simulation Time**

t<sub>sim</sub> 30 yrs

**Groundwater Flow Parameters**

K	1000	ft/yr
dh/dx	0.0055	
θ	0.18	dec. %
v <sub>x</sub>	30.55555556	ft/yr

**Aquifer Characteristics**

ρ <sub>d</sub>	1.6	kg/L
f <sub>oc</sub>	0.0002	

**Retarded Velocity (ft/yr)**

**Source Area CoC Data**

CoC	C <sub>source</sub> (mg/L)	K <sub>oc</sub> (L/kg)	CoC	R	v <sub>R</sub>
Benzene	6.4	81	Benzene	1.144	26.71
Toluene	39	133	Toluene	1.236	24.71
Ethylbenzene	3.7	176	Ethylbenzene	1.313	23.27
Xylenes	19	639	Xylenes	2.136	14.31
Naphthalene	1.45	1543	Naphthalene	3.743	8.16
MtBE		11	MtBE	1.020	29.97
EDB		28	EDB	1.050	29.11
1,2-DCA		17.5	1,2-DCA	1.031	29.63

**Simulation Points for Breakthrough Curves**

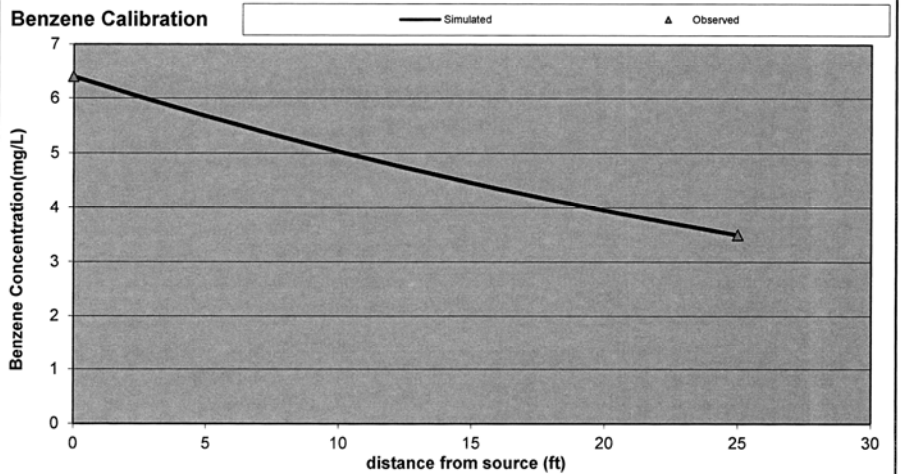
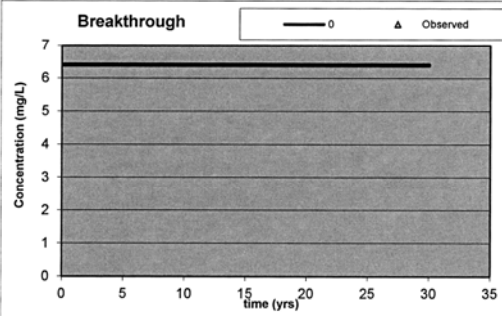
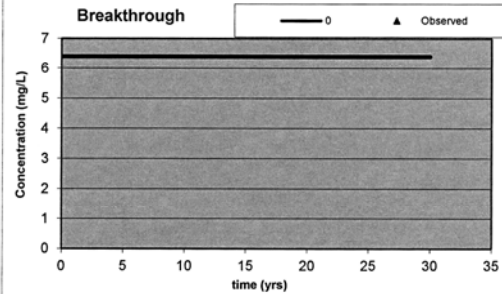
x		ft	x		ft
y		ft	y		ft
z		ft	z		ft

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\frac{x}{2\alpha_x}\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$$



**Benzene Calibration**

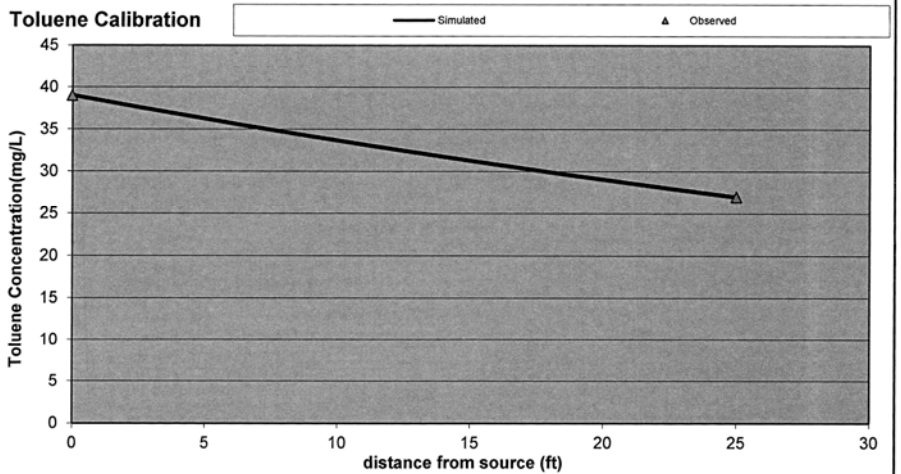
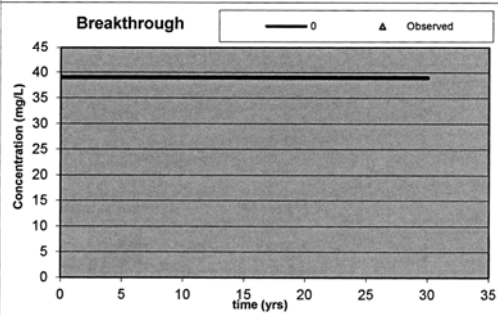
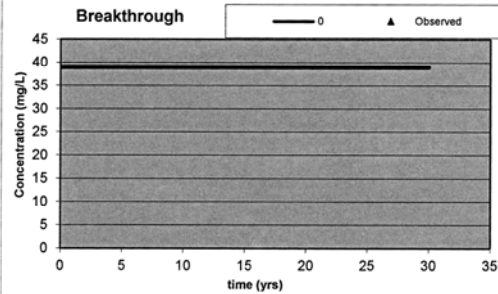
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 05289	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name Burnettes Service Station
0	6.4	6.4	0		6.4		6.4	Model Calibration Parameters t <sub>1/2</sub> 1.025 yrs      λ 0.6761 yr <sup>-1</sup> v <sub>x</sub> 30.55556 ft/yr R 1.144 v <sub>R</sub> 26.709 ft/yr      C <sub>source</sub> 6.4 mg/L L <sub>p</sub> 25 ft α <sub>x</sub> 2.010906 ft      t <sub>sim</sub> 30 yrs α <sub>y</sub> 0.201091 ft α <sub>z</sub> 1E-99 ft
2.5		6.025	3		6.400		6.400	
5		5.672	6		6.400		6.400	
7.5		5.340	9		6.400		6.400	
10		5.027	12		6.400		6.400	
12.5		4.733	15		6.400		6.400	
15		4.456	18		6.400		6.400	
17.5		4.195	21		6.400		6.400	
20		3.949	24		6.400		6.400	
22.5		3.718	27		6.400		6.400	
25	3.5	3.500	30		6.400		6.400	



Source	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
0	6.02516656	5.67228626	5.34007335	5.0273174	4.73287885	4.4556849	4.194726	3.94905	3.717761	3.500014
0	6.02516656	5.67228626	5.34007335	5.0273174	4.73287885	4.4556849	4.194726	3.94905	3.717761	3.500014
0	6.02516656	5.67228626	5.34007335	5.0273174	4.73287885	4.4556849	4.194726	3.94905	3.717761	3.500014
0	6.02516656	5.67228626	5.34007335	5.0273174	4.73287885	4.4556849	4.194726	3.94905	3.717761	3.500014
0	6.02516656	5.67228626	5.34007335	5.0273174	4.73287885	4.4556849	4.194726	3.94905	3.717761	3.500014

**Toluene Calibration**

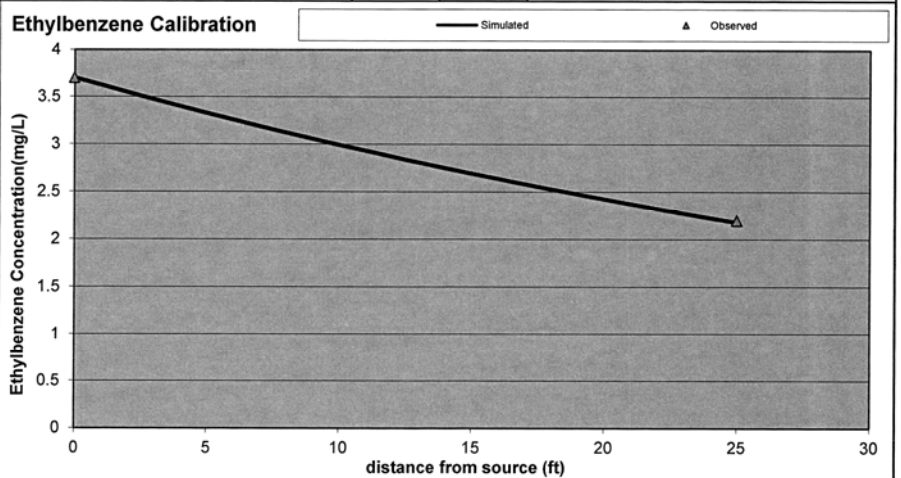
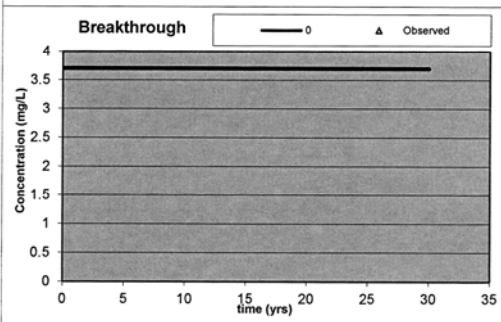
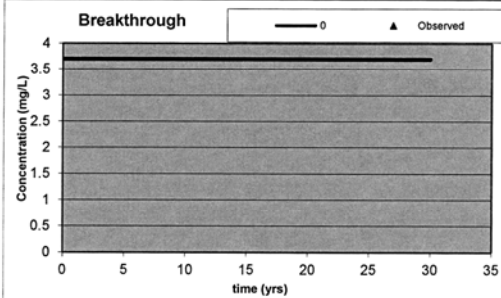
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 05289	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name Burnettes Service Station
0	39	39	0		39		39	Model Calibration Parameters t <sub>1/2</sub> 1.85 yrs      λ 0.37459 yr <sup>-1</sup> v <sub>x</sub> 30.55556 ft/yr R 1.236 v <sub>R</sub> 24.712 ft/yr      C <sub>source</sub> 39 mg/L L <sub>p</sub> 25 ft α <sub>x</sub> 2.010906 ft      t <sub>sim</sub> 30 yrs α <sub>y</sub> 0.201091 ft α <sub>z</sub> 1E-99 ft
2.5		37.591	3		39.000		39.000	
5		36.232	6		39.000		39.000	
7.5		34.923	9		39.000		39.000	
10		33.661	12		39.000		39.000	
12.5		32.445	15		39.000		39.000	
15		31.272	18		39.000		39.000	
17.5		30.142	21		39.000		39.000	
20		29.053	24		39.000		39.000	
22.5		28.003	27		39.000		39.000	
25	27	26.991	30		39.000		39.000	



Source	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
0	37.5906719	36.2322722	34.9229605	33.6609628	32.4445695	31.272132	30.14206	29.05283	28.00294	26.99097
0	37.5906719	36.2322722	34.9229605	33.6609628	32.4445695	31.272132	30.14206	29.05283	28.00294	26.99097
0	37.5906719	36.2322722	34.9229605	33.6609628	32.4445695	31.272132	30.14206	29.05283	28.00294	26.99097
0	37.5906719	36.2322722	34.9229605	33.6609628	32.4445695	31.272132	30.14206	29.05283	28.00294	26.99097
0	37.5906719	36.2322722	34.9229605	33.6609628	32.4445695	31.272132	30.14206	29.05283	28.00294	26.99097

**Ethylbenzene Calibration**

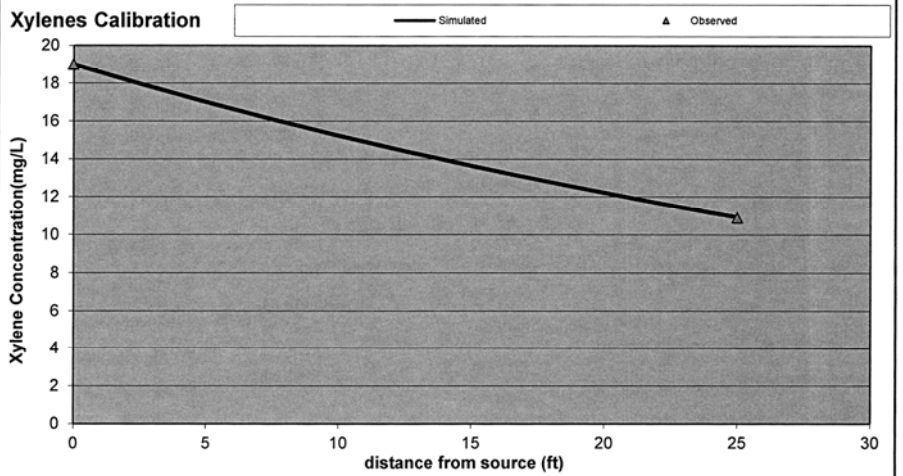
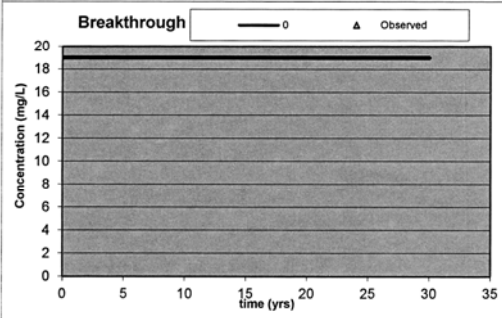
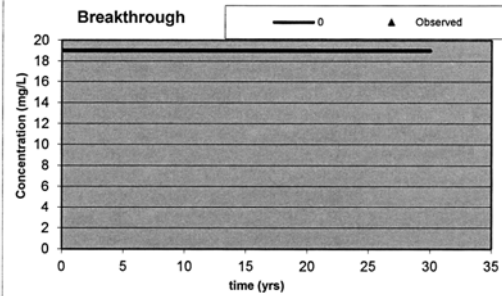
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	05289	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name	Burnettes Service Station
0	3.7	3.7	0		3.7		3.7	Model Calibration Parameters t <sub>1/2</sub> 1.35 yrs      λ [0.51333] yr <sup>-1</sup> v <sub>x</sub> 30.55556 ft/yr R 1.313 v <sub>R</sub> 23.274 ft/yr      C <sub>source</sub> 3.7 mg/L L <sub>p</sub> 25 ft      t <sub>sim</sub> 30 yrs α <sub>x</sub> 2.010906 ft α <sub>y</sub> 0.201091 ft α <sub>z</sub> 1E-99 ft	
2.5		3.509	3		3.700		3.700		
5		3.329	6		3.700		3.700		
7.5		3.157	9		3.700		3.700		
10		2.994	12		3.700		3.700		
12.5		2.840	15		3.700		3.700		
15		2.694	18		3.700		3.700		
17.5		2.555	21		3.700		3.700		
20		2.423	24		3.700		3.700		
22.5		2.299	27		3.700		3.700		
25	2.2	2.180	30		3.700		3.700		



Source	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
0	3.50938802	3.32859575	3.15711731	2.99447288	2.84020737	2.6938891	2.555109	2.423477	2.298627	2.180205
0	3.50938802	3.32859575	3.15711731	2.99447288	2.84020737	2.6938891	2.555109	2.423477	2.298627	2.180205
0	3.50938802	3.32859575	3.15711731	2.99447288	2.84020737	2.6938891	2.555109	2.423477	2.298627	2.180205
0	3.50938802	3.32859575	3.15711731	2.99447288	2.84020737	2.6938891	2.555109	2.423477	2.298627	2.180205
0	3.50938802	3.32859575	3.15711731	2.99447288	2.84020737	2.6938891	2.555109	2.423477	2.298627	2.180205



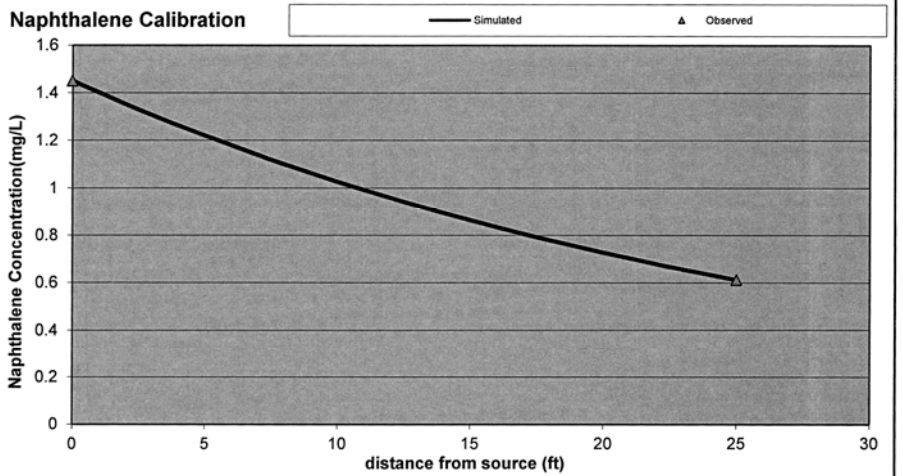
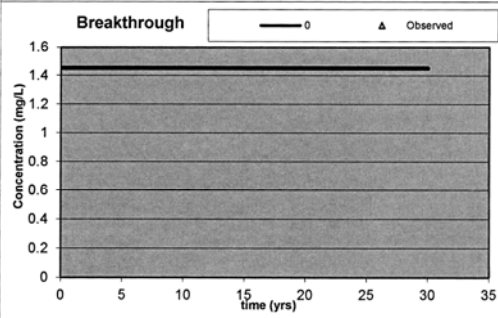
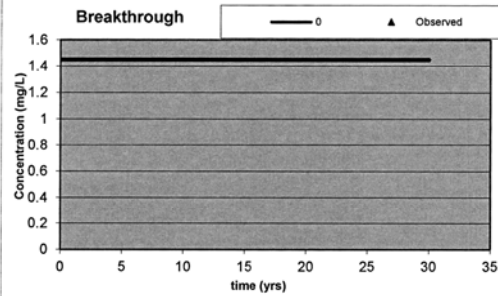
Xylenes Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 05289	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name Burnettes Service Station
0	19	19	0		19		19	Model Calibration Parameters  $t_{1/2}$ 2.1 yrs $\lambda$ 0.33 yr <sup>-1</sup> $v_x$ 30.55556 ft/yr $R$ 2.136 $v_R$ 14.305 ft/yr      C <sub>source</sub> 19 mg/L $L_p$ 25 ft $\alpha_x$ 2.010906 ft      t <sub>sim</sub> 30 yrs $\alpha_y$ 0.201091 ft $\alpha_z$ 1E-99 ft
2.5		17.979	3		19.000		19.000	
5		17.013	6		19.000		19.000	
7.5		16.099	9		19.000		19.000	
10		15.234	12		19.000		19.000	
12.5		14.416	15		19.000		19.000	
15		13.642	18		19.000		19.000	
17.5		12.909	21		19.000		19.000	
20		12.215	24		19.000		19.000	
22.5		11.559	27		19.000		19.000	
25	10.9	10.938	30		19.000		19.000	



Source	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
0	17.9792735	17.0133829	16.0993824	15.2344842	14.4160504	13.641585	12.90873	12.21524	11.559	10.938
0	17.9792735	17.0133829	16.0993824	15.2344842	14.4160504	13.641585	12.90873	12.21524	11.559	10.938
0	17.9792735	17.0133829	16.0993824	15.2344842	14.4160504	13.641585	12.90873	12.21524	11.559	10.938
0	17.9792735	17.0133829	16.0993824	15.2344842	14.4160504	13.641585	12.90873	12.21524	11.559	10.938
0	17.9792735	17.0133829	16.0993824	15.2344842	14.4160504	13.641585	12.90873	12.21524	11.559	10.938

**Naphthalene Calibration**

Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 05289	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name Burnettes Service Station
0	1.45	1.45	0		1.45		1.45	Model Calibration Parameters  $t_{1/2}$ 2.3 yrs $\lambda$ 0.3013 yr <sup>-1</sup> $v_x$ 30.55556 ft/yr $R$ 3.743 $v_R$ 8.163 ft/yr      C <sub>source</sub> 1.45 mg/L $L_p$ 25 ft $\alpha_x$ 2.010906 ft      t <sub>sim</sub> 30 yrs $\alpha_y$ 0.201091 ft $\alpha_z$ 1E-99 ft
2.5		1.330	3		1.450		1.450	
5		1.220	6		1.450		1.450	
7.5		1.119	9		1.450		1.450	
10		1.027	12		1.450		1.450	
12.5		0.942	15		1.450		1.450	
15		0.864	18		1.450		1.450	
17.5		0.793	21		1.450		1.450	
20		0.727	24		1.450		1.450	
22.5		0.667	27		1.450		1.450	
25	0.613	0.612	30		1.450		1.450	



Source	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
0	1.33012985	1.22016925	1.11929899	1.02676758	0.94188566	0.8640208	0.792593	0.72707	0.666963	0.611825
0	1.33012985	1.22016925	1.11929899	1.02676758	0.94188566	0.8640208	0.792593	0.72707	0.666963	0.611825
0	1.33012985	1.22016925	1.11929899	1.02676758	0.94188566	0.8640208	0.792593	0.72707	0.666963	0.611825
0	1.33012985	1.22016925	1.11929899	1.02676758	0.94188566	0.8640208	0.792593	0.72707	0.666963	0.611825
0	1.33012985	1.22016925	1.11929899	1.02676758	0.94188566	0.8640208	0.792593	0.72707	0.666963	0.611825

SSTLs

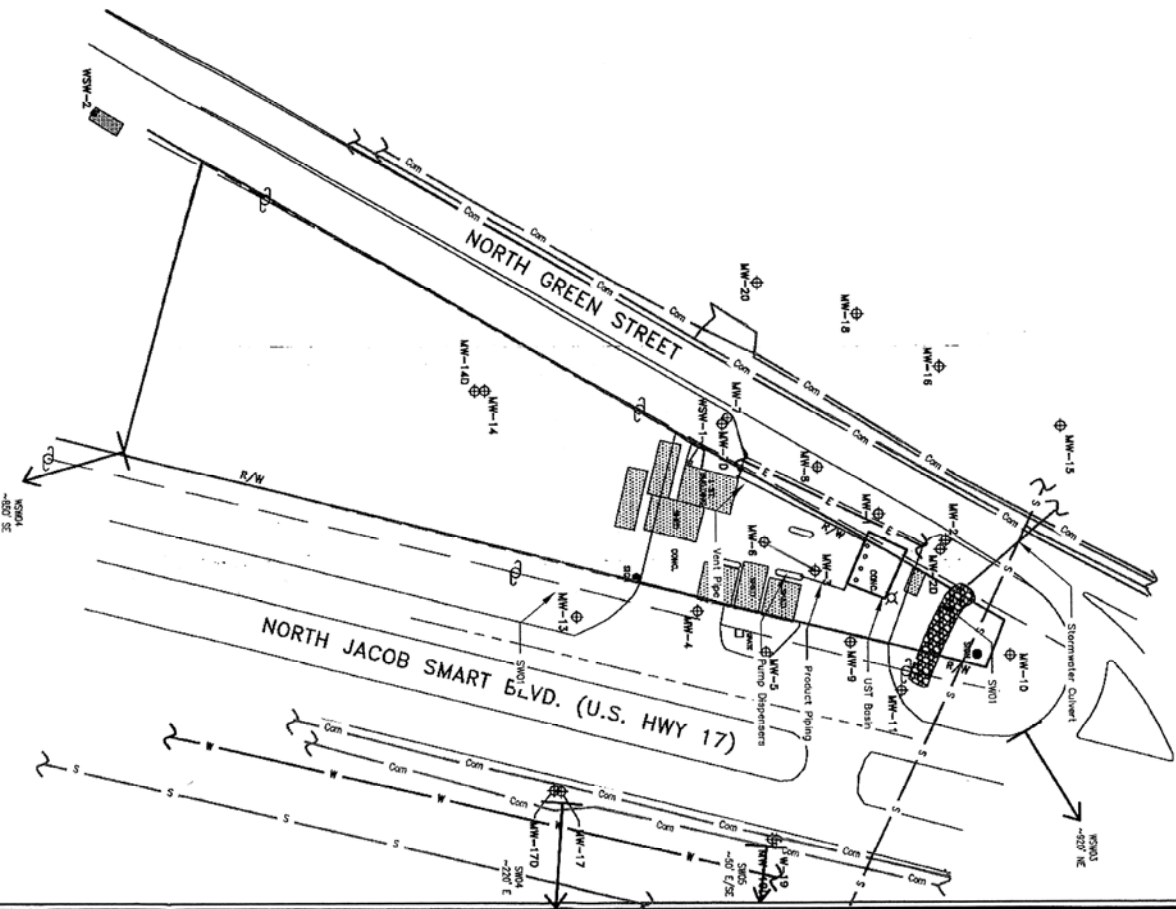
t 1000 yrs

UST Permit # 05289

Site Name: Burnettes Service Station

SSTLs in mg/L		RBSLs (mg/L):			0.005	1.000	0.700	10.000		0.025		
MW #	x (ft)	y (ft)	z (ft)	Benzene SSSL	Toluene SSSL	Ethylbenzene SSSL	Xylenes SSSL		Naphthalene SSSL			
MW-1	88	0	0	0.042	3.696	* 4.558	* 70.673		0.527			
MW-2	125	0	0	0.106	6.523	* 10.205	* 163.783		1.936			
MW-3	75	0	0	0.031	3.036	3.443	* 52.746		0.335			
MW-4	70	0	0	0.027	2.816	3.093	* 47.155		0.281			
MW-5	95	0	0	0.050	4.112	* 5.304	* 82.787		0.674			
MW-6	50	0	0	0.017	2.090	2.018	* 30.199		0.141			
MW-7	25	0	0	0.009	1.445	1.188	17.371		0.059			
MW-8	60	0	0	0.021	2.424	2.497	* 37.717		0.199			
MW-9	112	0	0	0.077	5.337	* 7.680	* 121.773		1.224			
MW-10	172	0	0	0.342	13.548	* 28.680	* 480.899		* 10.192			
MW-11	147	0	0	0.183	9.176	* 16.539	* 270.943		4.209			
MW-13	87	0	0	0.041	3.640	* 4.460	* 69.096		0.509			
MW-14	100	0	0	0.057	4.439	* 5.913	* 92.716		0.803			
MW-15	175	0	0	0.369	14.197	* 30.641	* 515.215		* 11.335			
MW-16	125	0	0	0.106	6.523	* 10.205	* 163.783		1.936			
MW-17	170	0	0	0.326	13.131	* 27.444	* 459.304		* 9.496			
MW-18	105	0	0	0.064	4.792	* 6.593	* 103.856		0.957			
MW-19	175	0	0	0.369	14.197	* 30.641	* 515.215		* 11.335			
MW-20	88	0	0	0.042	3.696	* 4.558	* 70.673		0.527			
MW-1	$\lambda$ (yr <sup>-1</sup> ):			0.676	0.375	0.513	0.330		0.301			
MW-1	R:			1.144	1.236	1.313	2.136		3.743			
Pure Substance Solubility:				1750	526	169	175		31			
Effective Solubility:				44.39	26.54	3.7	21.68		6.7			

\*SSTL set to Solubility



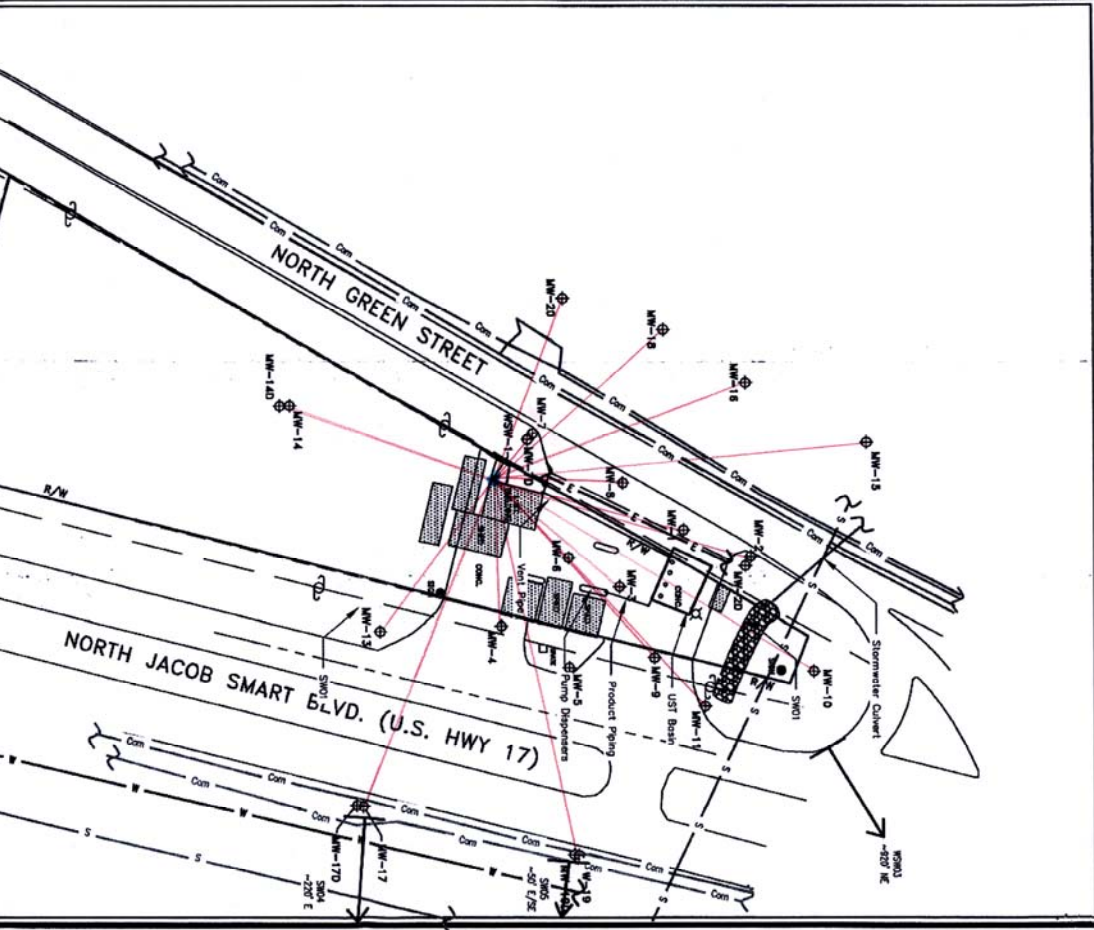
REFERENCE: Site Survey by Sothar Lead Surveys dated 14 February 2015



- ⊕ Groundwater Monitoring Well
- ⊕ Approximate Location of Underground Electric Line
- ⊕ Approximate Location of Underground Communication (Cable/Fiber) Line
- ⊕ Approximate Location of Underground Water Line
- ⊕ Approximate Location of Underground Gas Line
- ⊕ Approximate Location of Underground Sewer/Stormwater Line
- ⊕ Approximate Property Boundary

Item	See Also Ref
Project	Northern Service Station (NST Permit #2020)
Date	02/19/2015
Drawn by	John C. Smith
Checked by	John C. Smith
Scale	As Shown
Job No.	14-080-4
Figure No.	3

**petra-tech**  
 11111 W. 11th Street, Suite 100  
 Denver, CO 80202  
 (303) 733-1111  
 www.petra-tech.com



REFERENCE: Site Survey by Southern Lead Sampling dated 14 February 2015  
 Coordinates: UTM 18QNK

1. Condenser monitoring well  
 2. Approximate location of underground gasoline tank  
 3. Approximate location of underground communication (cable/fiber) line  
 4. Approximate location of underground water line  
 5. Approximate location of underground gas line  
 6. Approximate location of underground sewer/stormwater line  
 7. Approximate property boundary

Item	Site Name	Figure No.
Project	U.S. Highway 17/1777 Mile 20.75 to 20.90 Burlington, South Carolina	3
Date	02/27/2015	
Job No.	414-085-1	

**petraTECH**  
 ENVIRONMENTAL SERVICES  
 1500 W. MILITARY TRAIL, SUITE 200  
 FORT WORTH, TEXAS 76107  
 TEL: 817-733-8800  
 FAX: 817-733-8801  
 WWW.PETRATECH.COM



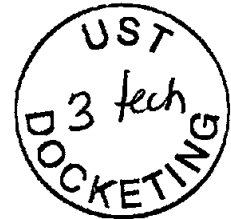
Catherine B. Templeton, Director

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

BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071-0854

MAY 13 2014

Re: Notice to Proceed for Small Scope Site-Specific Work Plan  
Solicitation # 5400006561, PO# 4600301871  
Burnette's Service Station, 11577 Jacob Smart Blvd., Ridgeland, SC  
UST Permit # 05289; CA # 47400; MWA # UMW-25494  
Site-Specific Work Plan received March 28, 2014  
Jasper County



Dear Mr. Shane:

In accordance with the bid solicitation # IFB-5400006561 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 2.0, the Site-Specific Work Plan has been approved. If quality assurance problems occur, you must contact me within 24 hours by phone or e-mail and the final report must document the event(s), including quality assurance problems, and the action(s) taken.

**A report meeting the contract specifications of Section 3.10, 3.11, or 3.12; contractor verification checklist; and invoice are due sixty (60) days from the date of this letter.** A monitoring well approval is enclosed. The solicitation requires adherence to all applicable South Carolina certification requirements for laboratory analyses, well installation, and report preparation.

MECI will perform services at the site on behalf of the responsible party (RP); however, payment will be made from the SUPERB Account. The RP has no obligation for payment of this scope of work. Please coordinate access to the facility with the property owner. The Agency 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. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below Risk Based Screening Levels.

On all correspondence, please reference permit # 05289. If you have any site-specific questions, please contact me at (803) 898-7542 or e-mail [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov). If you have any contract specific questions, please contact Minda Hornosky at (803) 898-7542 or via e-mail at [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov).

Sincerely,

Minda Hornosky, Hydrogeologist  
Assessment Action Section

UST Management Division, Bureau of Land & Waste Management

enc: Approved Cost Agreement (CA)  
Monitoring Well Approval

cc: Minda Hornosky, Assessment Section, UST Management Division (w/CA copy)  
Technical File (w/enc)



Catherine B. Templeton, Director

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

### Monitoring Well Approval Form

Approval is hereby granted to: Midlands Environmental Consultants, Inc.  
On behalf of: Fate Burnette  
UST Permit #: 05289  
Facility: Burnette's Service Station, 11577 N. Jacob Smart Blvd  
Ridgeland, SC  
County: Jasper

This approval is for the installation of one shallow permanent groundwater monitoring well. The monitoring well is to be installed in the approved location following the South Carolina Well Standards, R.61-71, and all 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 Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. 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 Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.
5. If any of the information provided to the Agency changes, notification to Minda Hornosky (tel: 803 898-7542 or e-mail: hornosms@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. Agency 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.

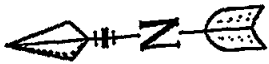
**Date of Issuance: April 18, 2014**

**Approval #: UMW-25494**

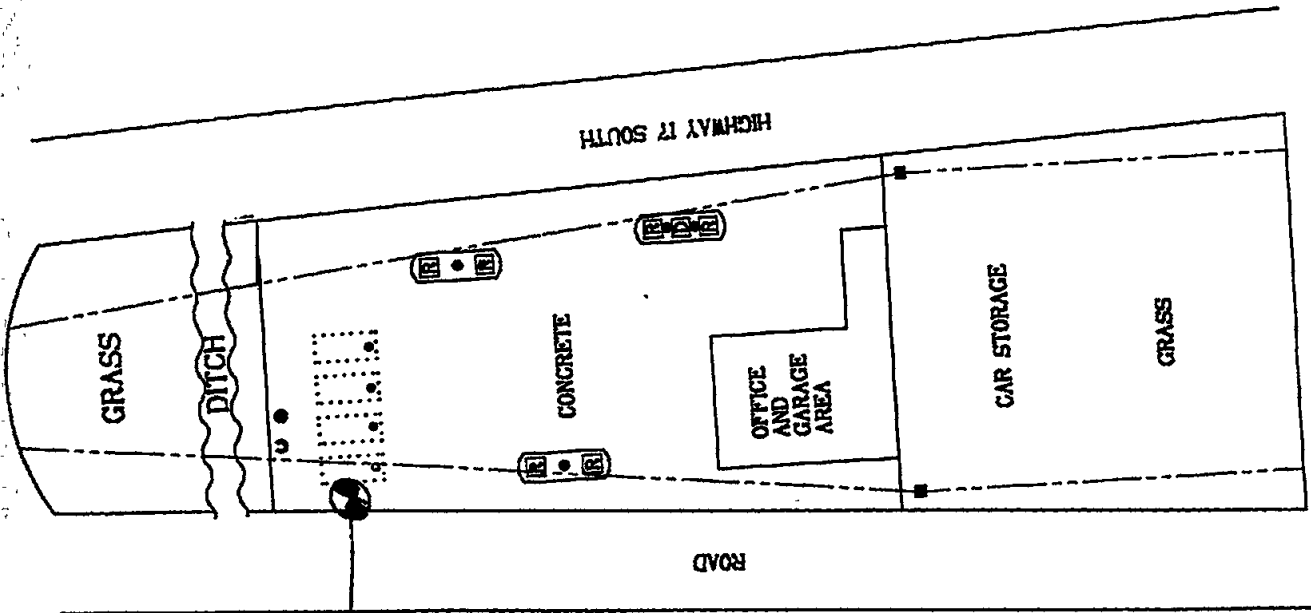
Minda Hornosky, Hydrogeologist  
Assessment Section

UST Management Division

Bureau of Land and Waste Management



1 GWA  
in DOT  
ROW



LEGEND :

- LIGHT POLE
- PHONE BOOTH
- POWER POLE
- ⊗ ELECTRICAL WIRE
- ⊗ PROPOSED MONITORING WELL LOCATION

SITE PLAN	
LITTLE T'S SERVICE RIDGELAND, SC	
DATE : 06-21-93	DRAWN BY : RM
SCALE : 1" = 40'	FIGURE : 2
SHIELD ENVIRONMENTAL ASSOCIATES, INC.	

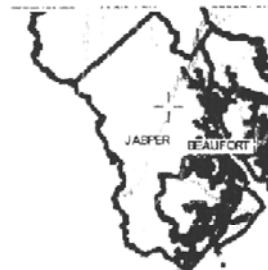




Jasper County Assessor

Parcel: 062-22-03-001 Acres: 0.98

Name:	TORRES HENRY A JR	Land Value	\$22,000.00
Site:	651 U S HWY 17	Improvement Valt	\$5,700.00
Sale:	SS0 on 10-1994 Vacant= Qual=U	Accessory Value	\$0.00
Mail:	P O BOX 834 RIDGELAND SC 29936	Total Value	\$0.00



The Jasper County Assessor's Office 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. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER JASPER COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY---

Date printed: 03/28/14 : 16:29:25

# Approved Cost Agreement 47400

Facility: 05289 BURNETTES SERVICE STATION

HORNOSMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
10 SAMPLE COLLECTION		C1 WATER SUPPLY	1.0000	5.00	5.00
11 ANALYSES	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8280B	1.0000	50.00	50.00
		F1 EDB BY 8011	1.0000	27.00	27.00
21 INITIAL GROUNDWATER ASSESSMENT		IGWA	1.0000	1,051.00	1,051.00
				<b>Total Amount</b>	<b>1,133.00</b>



65289

MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

JUL 28 2021



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) 898-7705 or email [wykeljm@dhec.sc.gov](mailto:wykeljm@dhec.sc.gov).

Sincerely,

Matt Wykel, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)  
Site Information Packages

Cc: Lindsey Wooten, Pace Analytical Services, 9800 Kinsey Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)  
Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

MEMORANDUM

TO: Midlands Environmental Consultants, Inc

FROM: Zachary Griffith

RE: Site Specific Work Plan Request

Facility Name: Burnettes Service Station

Permit Number: 05289

MECI CA#: 63257

PACE CA #: 63258

County: Jasper

RBCA CLASS: 2AB

Work To Be Completed: Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells and surface waters within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. All wells should be purged prior to sampling.

Total Groundwater Sample Points: 29

Analysis Being Requested: K1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B); K7. EDB by EPA 8011

Total Water Supply Well Points: 4

Analysis Being Requested: K14. BTEXNM+1,2 DCA (524.2);15. 7-OXYGENATES & ETHANOL (8260B); 16.EDB (504.1)

Domenico Solution Notes  
Burnettes Service Station  
11577 North Jacob Smart Boulevard  
Ridgeland, South Carolina 29936  
SC DHEC SITE#05289

Arthur Jarrett Brown  
Hydrogeologist I  
SC DHEC



**Site Specific Geology:** The site is located in the Coastal Plain Physiographic Province, which is generally comprised of Upper Cretaceous to present aged, wedge shaped formations that begin at the “Fall Line” and dip towards the Atlantic Ocean with ground surface elevations typically less than 300 feet. The sedimentary soils of formations consist of unconsolidated sand, clay, gravel, marl, cemented sands, and limestone that were deposited unconformably over Mesozoic / Paleozoic age basement rock.

The Lower Coastal Plain is typically identified as the area east of the Surry Scarp below elevation 100 feet, with a vertical stratigraphic sequence overlying the basement rock consisting of unconsolidated Cretaceous, Tertiary, and Quaternary sediment deposits. The surface deposits of the Lower Coastal Plain were formed during the Quaternary period which was characterized by the formation of the Carolina Bays and scarps throughout the east coast due to sea level rise and fall, the formation of the barrier islands, and the formations of flood plains from major rivers. Preceding the Quaternary period, limestone was deposited in the Lower Coastal Plain.

The site is located within the Bear Bluff Formation, a Pliocene aged unit consisting primarily of fossiliferous, coarse-grained calcareous sand, and sandy limestone. The Bear Bluff Formation unconformably overlies the Peedee Formation and underlies the Canepatch, Conway, or Waccamaw Formations. (Petra Tech, 2015)

**Site Background:** The subject site is located at 11577 North Jacob Smart Boulevard in Ridgeland, South Carolina. The site is currently occupied by Little T’s Garage and Wrecker where a numerous rusted, junk vehicles are present and the dispensers of the former service station are still present. While the Department’s files state the underground storage tanks were abandoned by removal, Midlands noted in their Initial Groundwater Survey of the site that “there is clear evidence that these USTs still remain installed on the property” and that these USTs are currently maintained by Little T’s Garage and Wrecker (Midlands Environmental Consultants, Inc., 2014).

**Source Area:** Monitoring Wells MW-3 and MW-6 have historically had the highest concentrations observed out of any wells within the well network associated with this release. Both wells are located near the dispensers and this seems to indicate that the release was due to a leak within the lines as opposed to the UST itself. To account for this, a rectangular area is drawn to encompass monitoring wells MW-3 and MW-6 with each side equal to the distance measured between the two wells. This area represents the source area and the initial concentrations for the source area are set to the highest historical observed concentrations for all petroleum constituents with the exception of Naphthalene.

Naphthalene has a much lower effective solubility limit than other petroleum chemical constituents considered here, with the exception of Ethylbenzene, and is far less volatile in comparison. This typically results in Naphthalene increasing in relative concentration to other BTEX constituents throughout the petroleum plumes life history. Monitoring Well MW-3 has had historically stable concentrations of Naphthalene and this suggests the possibility of a constant source of subsurface product. For this reason, Naphthalene is set to its effective solubility limit.

**Receptors:** Petra Tech conducted a receptor survey as part of the Tier II Assessment and noted that four private water supply wells and three surface water features were identified within an 1,000-foot radius of the site. Information gathered during the receptor survey regarding the potential receptors is provided in the tables below.

Private Water Supply Wells		
Water Supply Well	Location	Distance
WSW-1	1577 North Jacob Smart Blvd.	Southwest corner near MW-7
WSW-2	Plantation Motel	~480' Southwest of the site
WSW-3	1075 North Jacob Smart Blvd.	~1000' West of the site
WSW-4	No address posted	~1000 South of the site

Surface water features identified during the receptor survey include a drainage ditch, located adjacent to the site to the North and East on both sides of Highway 17/North Jacob Smart Boulevard, a pond located approximately 650 feet to the Northeast of the site, an unnamed intermittent stream that forms a tributary to the pond approximately 400 feet East of the site.

Due to the onsite location of water supply well WSW-1, it is selected as the potential receptor of the purposes of this model and SSTLs will be generated based on the distance between it and a given monitoring well within the network associated with UST 05289.

### Aquifer Characteristics

**Hydraulic Conductivity** Slug tests were performed on monitoring wells MW-10, MW-17, and MW-17D to determine the hydraulic conductivity of the formation material by Petra Tech as part of the Tier II Assessment Report. The resulting values were averaged to calculate a site-wide metric mean hydraulic conductivity which resulted in a hydraulic conductivity of 18.93 feet/year. This value is not considered here for the purposes of the model and the most conservative value obtained from these slug tests will be taken to represent site conditions. The values obtained for the reference slug tests are listed here: MW-10 (48.73 feet/year), MW-17 (7.75 feet/year), MW-17D (0.29 feet/year).

The values listed above were insufficient to account for site conditions and it is believed that the hydraulic conductivity was grossly underestimated. The hydraulic conductivity was increased until the model could be calibrated with realistic half-lives for all petroleum constituents considered as part of this model. This resulted in the value of 1500 feet/year for the hydraulic conductivity value, which is well within the accepted parameters for what values may be expected for a medium sand.

**Hydraulic Gradient:** Petra Tech calculated a site wide hydraulic gradient of 0.004 feet/feet as part of the Tier II Assessment Report and that value is reproduced here for the purposes of this model.

**Porosity:** Petra Tech utilized an effective porosity value of 0.18 for shallow and deep wells screened in a silty, clayey, fine sand. This value was estimated based on published values of effective porosity for fine sand obtained from (McWhorter and Sunada 1977). Based on the Well Construction Logs provided in the Tier II Assessment Report, a Black red (5R 2/2), medium sand is present until a depth of ~10 feet. Considering the historical depth to groundwater falls within this range, this layer likely represents the preferential pathway that groundwater and those the dissolve phase concentrations flow through. An effective porosity value of 0.15 for medium sand is selected to represent this (Domenico and Schwartz 1990).

**Estimated Seepage Velocity:** 40 feet /year

**Soil Bulk Density:** This data was not collected as part of the Tier II site assessment and the default value of 1.7 g/g is reproduced here.

**Fraction Organic Carbon:** This data was not collected as part of the Tier II site assessment and a value of 0.0002 is used here. A value of 0.001 was initially used, as per the recommendations of the Bioscreen user manual, but the model could not be correctly calibrated for Xylene or Naphthalene.

**Data Selection:** All models are calibrated to the highest historical observed concentrations with the exception of sampling data collected from monitoring well MW-2 on the following dates: May 13, 2016 and March 20, 2019. A sheen was observed within MW-2 on these dates and groundwater samples were collected below it. The resulting analytical data was much higher than previous sampling events and it is believed the presence of free phase petroleum product sheen indicates that the sampling data collected during these events is not representative of the dissolved phase concentrations in this area.

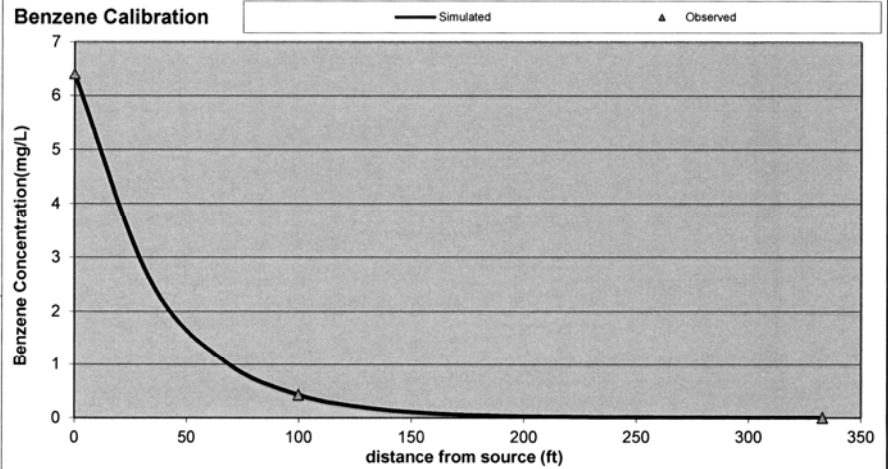
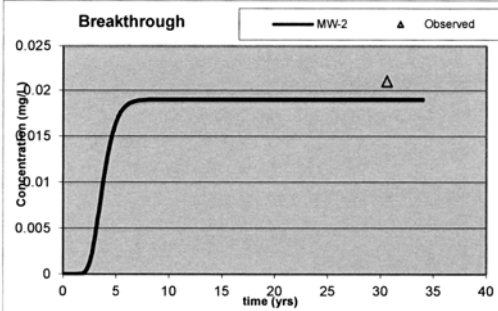
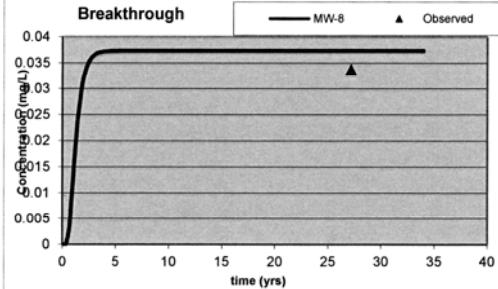


## References

- Petra Tech, February 25, 2015, Tier II Assessment Report
- Midlands Environmental Consultants, Inc., July 9, 2014, Initial Groundwater Assessment Report

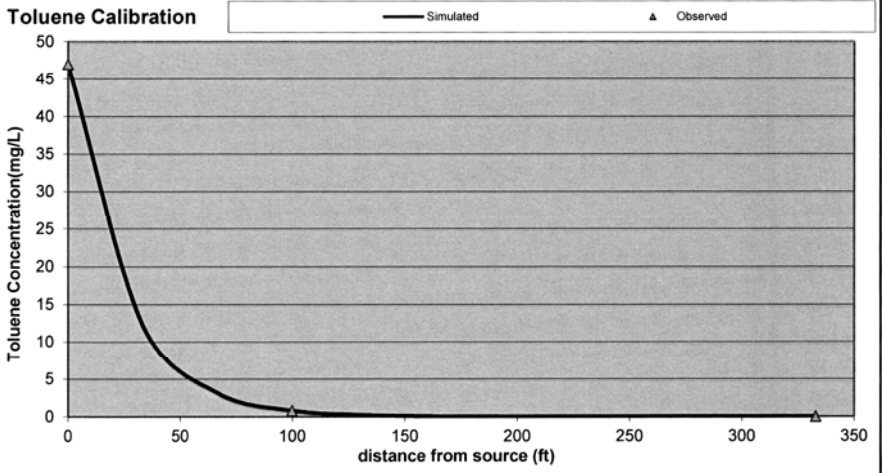
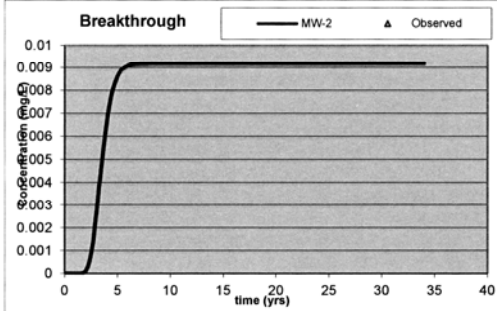
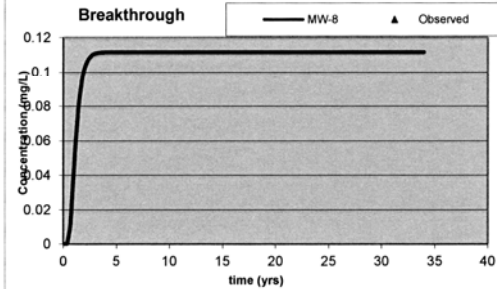
Domenico Model			Transport Parameters			Simulation Time		
UST # 05289 Site Name: Burnettes Service Station Modeler: Arthur Brown Date: 8/13/2021			$x_{max}$ <input type="text" value="333"/> ft $y_{max}$ <input type="text" value="100"/> ft $z$ <input type="text" value="0"/> ft Source Width <input type="text" value="66"/> ft Source Thickness <input type="text" value="15"/> ft			$t_{sim}$ <input type="text" value="34"/> yrs		
Groundwater Flow Parameters			Plume Length			Aquifer Characteristics		
$K$ <input type="text" value="1500"/> ft/yr $dh/dx$ <input type="text" value="0.004"/> $\theta$ <input type="text" value="0.15"/> dec. % $v_x$ <input type="text" value="40"/> ft/yr			<input type="text" value="200"/> ft $\alpha_x$ <input type="text" value="11.02804"/> ft $\alpha_y$ <input type="text" value="1.102804"/> ft $\alpha_z$ <input type="text" value="1.00E-99"/> ft			$\rho_d$ <input type="text" value="1.7"/> kg/L $f_{oc}$ <input type="text" value="0.0002"/>		
Source Area CoC Data			Retarded Velocity (ft/yr)			Simulation Points for Breakthrough Curves		
CoC	$C_{source}$ (mg/L)	$K_{oc}$ (L/kg)	CoC	R	$v_R$			
Benzene	6.4	81	Benzene	1.184	33.80	$x$ <input type="text" value="66"/> ft	$x$ <input type="text" value="200"/> ft	
Toluene	47	133	Toluene	1.301	30.73	$y$ <input type="text" value="55"/> ft	$y$ <input type="text" value="26"/> ft	
Ethylbenzene	3.7	176	Ethylbenzene	1.399	28.59	$z$ <input type="text" value=""/>	$z$ <input type="text" value=""/>	
Xylenes	19	639	Xylenes	2.448	16.34			
Naphthalene	6.7	1543	Naphthalene	4.497	8.89			
MtBE		11	MtBE	1.025	39.03			
EDB		28	EDB	1.063	37.61			
1,2-DCA		17.5	1,2-DCA	1.040	38.47			
$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$								

Benzene Calibration											
Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID 05289			
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	MW-8		MW-2		Site Name Burnettes Service Station				
			t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Model Calibration Parameters			
0	6.4	6.4	0		0		0	t <sub>1/2</sub>	0.5914 yrs	λ	1.1718 yr <sup>-1</sup>
33.3		2.624	3.4		0.037		0.007	v <sub>x</sub>	40 ft/yr		
66.6		1.069	6.8		0.037		0.019	R	1.184		
99.9	0.43	0.430	10.2		0.037		0.019	v <sub>R</sub>	33.795 ft/yr	C <sub>source</sub>	6.4 mg/L
133.2		0.171	13.6		0.037		0.019	L <sub>p</sub>	200 ft	t <sub>sim</sub>	34 yrs
166.5		0.068	17		0.037		0.019	α <sub>x</sub>	11.02804 ft		
199.8		0.027	20.4		0.037		0.019	α <sub>y</sub>	1.102804 ft		
233.1		0.011	23.8		0.037		0.019	α <sub>z</sub>	1E-99 ft		
266.4		0.004	27.2	0.0336	0.037		0.019				
299.7		0.002	30.6		0.037	0.021	0.019				
333	<0.005	0.001	34		0.037		0.019				



Source	33.3	66.6	99.9	133.2	166.5	199.8	233.1	266.4	299.7	333
100	6.9928E-15	1.7422E-08	1.406E-06	8.3877E-06	1.7506E-05	2.152E-05	1.95E-05	1.46E-05	9.61E-06	5.78E-06
50	0.06206173	0.08648182	0.05562565	0.02906926	0.01391329	0.0063589	0.002827	0.001234	0.000532	0.000227
0	2.62408219	1.06919447	0.42972721	0.17115019	0.06789136	0.0268997	0.010661	0.004229	0.00168	0.000668
50	0.06206173	0.08648182	0.05562565	0.02906926	0.01391329	0.0063589	0.002827	0.001234	0.000532	0.000227
100	6.9928E-15	1.7422E-08	1.406E-06	8.3877E-06	1.7506E-05	2.152E-05	1.95E-05	1.46E-05	9.61E-06	5.78E-06

Toluene Calibration										
Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID 05289 Site Name Burnettes Service Station		
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	MW-8		MW-2		Model Calibration Parameters			
			t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t <sub>1/2</sub>	λ	
0	47	47	0		0		0	0.3863	1.79394	
33.3		12.247	3.4		0.111		0.004	v <sub>x</sub>		
66.6		3.171	6.8		0.112		0.009	R		
99.9	0.81	0.810	10.2		0.112		0.009	v <sub>R</sub>		C <sub>source</sub> 47 mg/L
133.2		0.205	13.6		0.112		0.009	L <sub>p</sub>		t <sub>sim</sub> 34 yrs
166.5		0.052	17		0.112		0.009	α <sub>x</sub>		
199.8		0.013	20.4		0.112		0.009	α <sub>y</sub>		
233.1		0.003	23.8		0.112		0.009	α <sub>z</sub>		
266.4		0.001	27.2		0.112		0.009			
299.7		0.000	30.6		0.112		0.009			
333	<0.005	0.000	34		0.112		0.009			

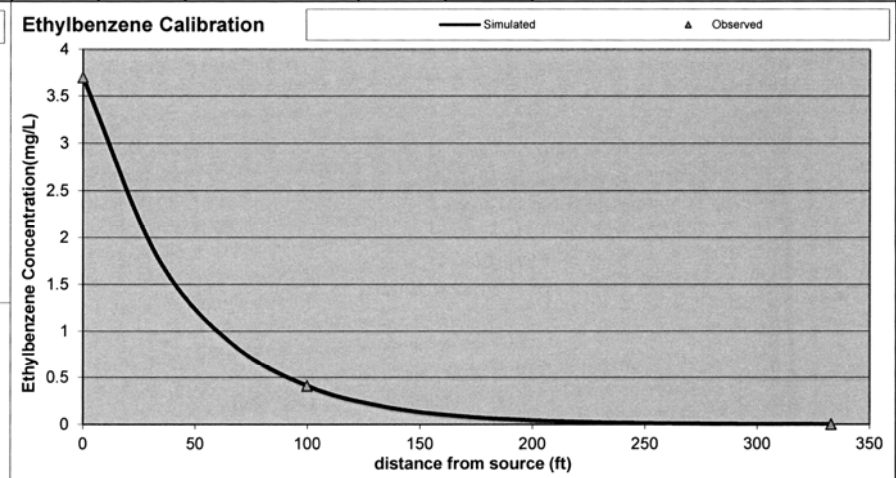
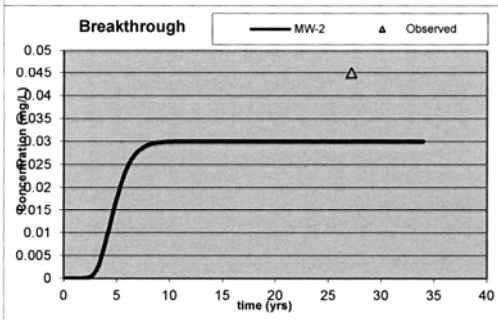
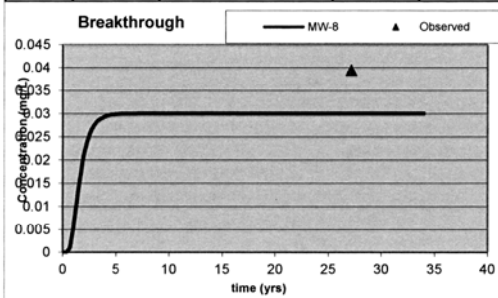


Source	33.3	66.6	99.9	133.2	166.5	199.8	233.1	266.4	299.7	333
100	3.2635E-14	5.1671E-08	2.6501E-06	1.0047E-05	1.3326E-05	1.041E-05	6E-06	2.85E-06	1.19E-06	4.56E-07
50	0.28964245	0.2564978	0.10484661	0.0348204	0.01059132	0.0030763	0.000869	0.000241	6.61E-05	1.79E-05
0	12.2466069	3.17114066	0.80997593	0.20501098	0.05168145	0.0130133	0.003278	0.000826	0.000209	5.27E-05
50	0.28964245	0.2564978	0.10484661	0.0348204	0.01059132	0.0030763	0.000869	0.000241	6.61E-05	1.79E-05
100	3.2635E-14	5.1671E-08	2.6501E-06	1.0047E-05	1.3326E-05	1.041E-05	6E-06	2.85E-06	1.19E-06	4.56E-07

Ethylbenzene Calibration											
Spatial Calibration Data (centerline)					Temporal Calibration Data					Site ID 05289 Site Name Burnettes Service Station	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)			MW-8		MW-2				
				t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)			
0	3.7	3.7		0		0		0			
33.3		1.793		3.4		0.029		0.003			
66.6		0.864		6.8		0.030		0.027			
99.9	0.41	0.410	MW-1	10.2		0.030		0.030			
133.2		0.193		13.6		0.030		0.030			
166.5		0.091		17		0.030		0.030			
199.8		0.042		20.4		0.030		0.030			
233.1		0.020		23.8		0.030		0.030			
266.4		0.009		27.2	0.0394	0.030	0.045	0.030			
299.7		0.004		30.6		0.030		0.030			
333	<0.005	0.002	MW-15	34		0.030		0.030			

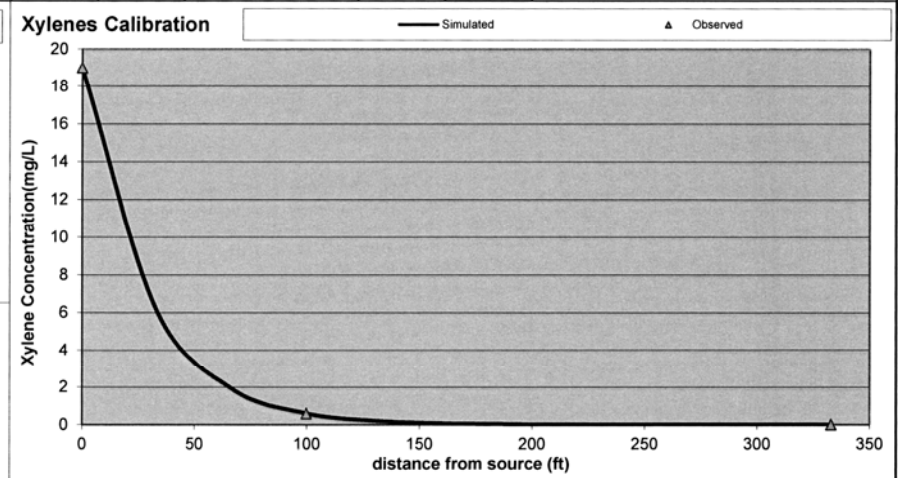
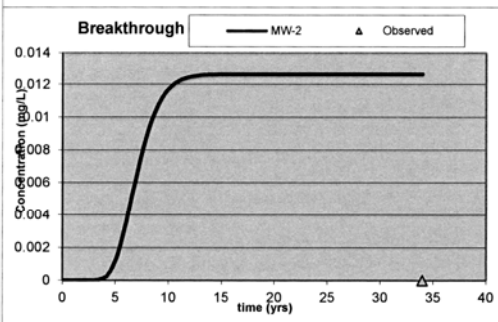
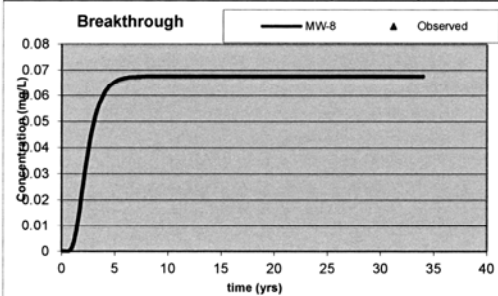
  

Model Calibration Parameters				
t <sub>1/2</sub>	0.899	yrs	λ	0.77086 yr <sup>-1</sup>
v <sub>x</sub>	40	ft/yr		
R	1.399			
v <sub>R</sub>	28.593	ft/yr	C <sub>source</sub>	3.7 mg/L
L <sub>p</sub>	200	ft	t <sub>sim</sub>	34 yrs
α <sub>x</sub>	11.02804	ft		
α <sub>y</sub>	1.102804	ft		
α <sub>z</sub>	1E-99	ft		



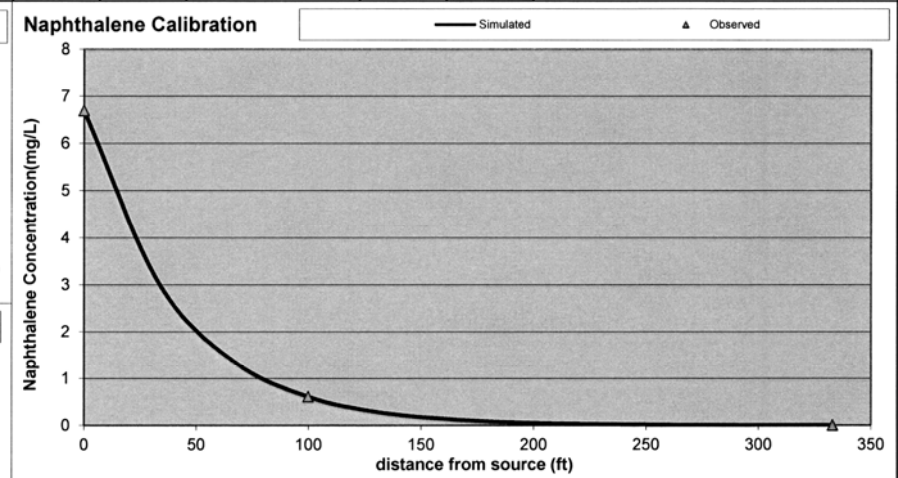
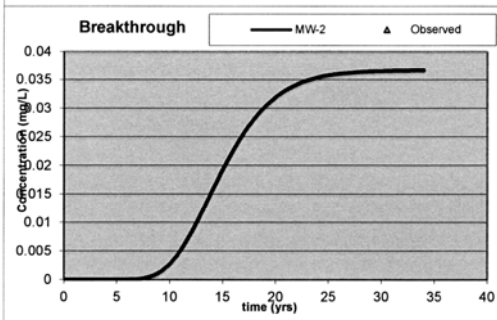
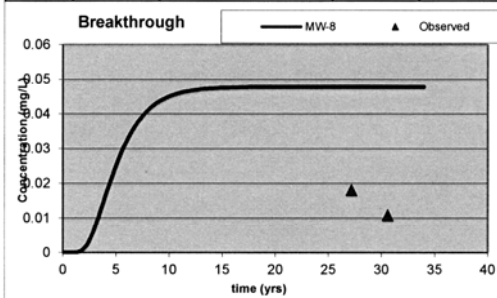
Source	33.3	66.6	99.9	133.2	166.5	199.8	233.1	266.4	299.7	333
100	4.7791E-15	1.4075E-08	1.3429E-06	9.4704E-06	2.3366E-05	3.396E-05	3.64E-05	3.22E-05	2.51E-05	1.78E-05
50	0.04241524	0.06987137	0.05312829	0.0328217	0.01857091	0.0100338	0.005273	0.002722	0.001387	0.0007
0	1.79339317	0.86383562	0.41043424	0.1932433	0.09061871	0.0424451	0.019886	0.009326	0.004379	0.002059
50	0.04241524	0.06987137	0.05312829	0.0328217	0.01857091	0.0100338	0.005273	0.002722	0.001387	0.0007
100	4.7791E-15	1.4075E-08	1.3429E-06	9.4704E-06	2.3366E-05	3.396E-05	3.64E-05	3.22E-05	2.51E-05	1.78E-05

Xylenes Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 05289	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	MW-8		MW-2		Site Name Burnettes Service Station	
			t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	
0	19	19	0		0		0	<b>Model Calibration Parameters</b>  $t_{1/2}$ 0.8987 yrs $\lambda$ 0.77111 yr <sup>-1</sup> $v_x$ 40 ft/yr $R$ 2.448 $v_R$ 16.337 ft/yr $C_{source}$ 19 mg/L $L_p$ 200 ft $t_{sim}$ 34 yrs $\alpha_x$ 11.02804 ft $\alpha_y$ 1.102804 ft $\alpha_z$ 1E-99 ft
33.3		6.071	3.4		0.055		0.000	
66.6		1.928	6.8		0.067		0.006	
99.9	0.59	0.604	10.2		0.068		0.012	
133.2		0.187	13.6		0.068		0.013	
166.5		0.058	17		0.068		0.013	
199.8		0.018	20.4		0.068		0.013	
233.1		0.006	23.8		0.068		0.013	
266.4		0.002	27.2		0.068		0.013	
299.7		0.001	30.6		0.068		0.013	
333	<0.005	0.000	34		0.068		0.013	



Source	33.3	66.6	99.9	133.2	166.5	199.8	233.1	266.4	299.7	333
100	1.6179E-14	3.1412E-08	1.9756E-06	9.1852E-06	1.494E-05	1.432E-05	1.01E-05	5.9E-06	3.03E-06	1.42E-06
50	0.14358715	0.15593179	0.07816333	0.03183318	0.01187392	0.0042293	0.001465	0.000499	0.000168	5.58E-05
0	6.07112478	1.9278202	0.60383846	0.18742323	0.05794002	0.0178908	0.005526	0.001708	0.000529	0.000164
50	0.14358715	0.15593179	0.07816333	0.03183318	0.01187392	0.0042293	0.001465	0.000499	0.000168	5.58E-05
100	1.6179E-14	3.1412E-08	1.9756E-06	9.1852E-06	1.494E-05	1.432E-05	1.01E-05	5.9E-06	3.03E-06	1.42E-06

Naphthalene Calibration									
Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID	05289
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	MW-8		MW-2		Site Name		Burnettes Service Station
			t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Model Calibration Parameters	
0	6.7	6.7	0		0		0	t <sub>1/2</sub>	2.603 yrs
33.3		3.040	3.4		0.011		0.000	v <sub>x</sub>	40 ft/yr
66.6		1.371	6.8		0.036		0.000	R	4,497
99.9	0.61	0.610	10.2		0.045		0.003	v <sub>R</sub>	8,894 ft/yr
133.2		0.269	13.6		0.047		0.014	L <sub>p</sub>	200 ft
166.5		0.118	17		0.048		0.026	α <sub>x</sub>	11,02804 ft
199.8		0.052	20.4		0.048		0.032	α <sub>y</sub>	1.102804 ft
233.1		0.023	23.8		0.048		0.035	α <sub>z</sub>	1E-99 ft
266.4		0.010	27.2	0.018	0.048		0.036	C <sub>source</sub>	6.7 mg/L
299.7		0.004	30.6	0.0108	0.048		0.036	t <sub>sim</sub>	34 yrs
333	<0.005	0.002	34		0.048		0.037		



Source	33.3	66.6	99.9	133.2	166.5	199.8	233.1	266.4	299.7	333
100	8.1016E-15	2.2337E-08	1.995E-06	1.3171E-05	3.0418E-05	4.137E-05	4.14E-05	3.41E-05	2.44E-05	1.57E-05
50	0.07190223	0.11088347	0.07892943	0.04564682	0.02417545	0.0122213	0.006001	0.002882	0.001353	0.000617
0	3.04015658	1.37087759	0.60975685	0.26875336	0.11796666	0.0516988	0.022631	0.009876	0.004272	0.001814
50	0.07190223	0.11088347	0.07892943	0.04564682	0.02417545	0.0122213	0.006001	0.002882	0.001353	0.000617
100	8.1016E-15	2.2337E-08	1.995E-06	1.3171E-05	3.0418E-05	4.137E-05	4.14E-05	3.41E-05	2.44E-05	1.57E-05

SSTLs

t 1000 yrs

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Site Name: Burnettes Service Station

SSTLs in mg/L		RBSLs (mg/L):			0.005	1.000	0.700	10.000	0.025		
MW #	x (ft)	y (ft)	z (ft)	Benzene	Toluene	Ethylbenzene	Xylenes		Naphthalene		
MW-1	226		0	2.464	10687.745	110.807	26766.575		6.193		
MW-3	186	0	0	0.811	2039.323	44.561	6525.537		2.301		
MW-6	126	0	0	0.153	170.254	11.383	786.799		0.522		
MW-8	146	0	0	0.267	389.253	17.926	1591.424		0.855		
				$\lambda$ (yr <sup>-1</sup> ):	1.172	1.794	0.771	0.771		0.266	
				R:	1.184	1.301	1.399	2.448		4.497	
				Pure Substance Solubility:	1750	526	169	175		31	
				Effective Solubility:	44.39	26.54	3.7	21.68		6.7	



RBSL					5	1000	700	10000	40	25	5	0.05	240	128		1400		150	10000	47
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UST Facility: Burnettes Service Station  
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	Screened Interval	TOC Elevation	DTGW	DTHP	GW Elev	SSTLs										Ethanol	ETBE								
						B	T	E	X	MMBE	Naph	1,2 DCA	EDB	TAA	TAME			ETBA	TBA	TbF	DipE				
<b>MW-1</b>																									
1/26/2015	2-12					5	5	5	5	5	5	10	5	6	3	2	4	9	8	5	15				
12/8/2005		2.11			430	810	410	590	<10	520	<10		160J	<100	<200	<200	<200	<50	<10	<1000	<10				
5/13/2016		2.66	SHEEN		357	552	315	783	<25	610	<25	<0.19	<500	<50	<500	<500	<500	<250	<25	<1000	<50				
11/30/2017		2.65			1180	15400	769	6140	<500	707	<500	<0.02	<10000	<1000	<10000	<10000	<5000	<5000	<20000	<1000	<1000				
3/20/2019		2.77	SHEEN		239	27.3	167	277	<20	395	<20		373J	<40	<400	<400	<400	<200	<20	<800	<40				
<b>MW-2</b>																									
1/26/2015	3.68-13.68																								
12/8/2015		2.92			21	78	45	120	2.6J	230	<5		36J	<50	<100	<100	55J	<25	<5	<500	<5				
5/13/2016		3.64			<5	<5	<5	<10	48.3	<5	<5	<0.02	86.3J	<10	<100	<100	1010	<50	<5	<200	<10				
11/30/2017		4.20			<5	<5	<5	<5	36.3	<5	<5		<100	<10	<100	<100	832	<50	<5	<200	<10				
3/20/2019		3.51			<5	<5	<5	<5	25.6	<5	<5	<0.02	<100	<10	<100	<100	589	<50	<5	<200	<10				
<b>MW-2D</b>																									
1/26/2015	24.8-29.8																								
12/8/2015		3.89			<5	<5	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10					
5/13/2016		4.18			<5	<5	<5	<10	<5	<5	<5	<0.02	<100	<10	<100	91.2J	<50	<5	<200	<10					
11/30/2017		4.03			<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10					
3/20/2019		3.87			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10					
<b>MW-3</b>																									
1/26/2015	3.12-13.12																								
12/8/2015		2.77			6400	39000	3700	19000	<500	1000	<500		<10000	<5000	<10000	<10000	<2500	<500	<50000	<500					
5/13/2016		2.43			3640	29700	2510	13800	<250	680	<250	<0.02	<5000	<500	<5000	<5000	<2500	<250	<1000	<500					
11/30/2017		3.89			3200	23600	2400	13000	<1000	735J	<1000	<0.019	<20000	<2000	<20000	<20000	<10000	<1000	<40000	<2000					
3/20/2019		2.90			1780	16800	1830	11100	<1000	630J	<1000		<20000	<2000	<20000	<20000	<10000	<1000	<40000	<2000					
<b>MW-4</b>																									
1/26/2015	3.59-13.59																								
12/8/2015		2.62			2.9	<1	<1	74	1.4	1.1	<1		6.8J	<10	<20	<20	<5	<1	<100	<1					
5/13/2016		2.35			<5	<5	<5	30.4	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10					
11/30/2017		3.43			<5	<5	<5	44.1	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10					
3/20/2019		2.94			<5	<5	<5	33.4	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10					
<b>MW-5</b>																									
1/26/2015	3.66-13.66																								
12/8/2015		1.75			<1	<1	<1	<1	<1	<1	<1		<20	<10	<20	<20	<5	<1	<100	<1					
5/13/2016		1.89			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10					
11/30/2017		1.37			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10					

RBSL					5	1000	700	10000	40	25	5	0.05	240	128		1400		150	10000	47
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3/20/2019		7.98			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
<b>MW-6</b>			<b>SSTLs</b>																		
1/26/2015	3.29-13.29	2.82			3500	27000	2200	13000	<200	1200	<200		2800J	<2000	<4000	<4000	<1000	<200	<20000	<200	
12/8/2015		3.66																			
5/13/2016		3.91																			
11/30/2017		3.18			2440	16900	1650	10900	<1000	540J	<1000			<20000	<2000	<20000	<20000	<10000	<1000	<40000	<2000
3/20/2019					2410	47000	2510	13700	<1250	613J	<1250	<0.02		<25000	<2500	<25000	<25000	<12500	<1250	<50000	<25000
<b>MW-7</b>			<b>SSTLs</b>																		
1/26/2015	3.75-13.75	2.59			<1	<1	<1	0.55J	1.1	<1	<1		<20	<10	<20	<20	<5	<1	<10	<1	
12/8/2015		3.03			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		4.07			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		2.86			<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019					<5	<5	<5	<5	<5	<5	<5	<0.019		<100	<10	<100	<100	<50	<5	<200	<10
<b>MW-7D</b>			<b>SSTLs</b>																		
1/26/2015	27.29-32.29	4.36			0.25J	1.8	<1	0.64J	<1	<1	<1		<20	<10	<20	<20	<5	<1	<100	<1	
12/8/2015		4.62			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		4.79			<5	<5	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		4.52			<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019					<5	<5	<5	<5	<5	<5	<5	<0.019		<100	<10	<100	<100	<50	<5	<200	<10
<b>MW-8</b>			<b>SSTLs</b>																		
1/26/2015	3.45-13.45	2.35			2.6	0.61J	3.1	2.1	<1	3.8	<1		65	<10	<20	15J	<5	<1	<100	<1	
12/8/2015		2.31			<5	<5	2.3J	<10	<5	12.5	<5	<0.02	104	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		4.13			33.6	<5	39.4	<10	<5	18.1	<5	<0.02	490	<10	<100	156	<50	<5	<200	<10	
11/30/2017		3.01			<5	<5	4.3J	<5	<5	6.8	<5		472	<10	<100	156	<50	<5	<200	<10	
3/20/2019					17.5	2.4J	11.9	<5	<5	10.8	<5	<0.02	<100	<10	<100	146	<50	<5	<200	<10	
<b>MW-9</b>			<b>SSTLs</b>																		
1/26/2015	3.76-13.76	1.85			<1	<1	<1	<1	13	<1	<1		370	<10	<20	230	<5	<1	<100	<1	
12/8/2015		2.21			<5	<5	<5	<5	16.9	<5	<5	<0.02	440	<10	<100	288	<50	<5	<200	<10	
5/13/2016		2.30			<5	<5	<5	<5	16.9	73.5	<5	<0.019	708	<10	<100	362	<50	<5	<200	<10	
11/30/2017		2.28			<5	<5	<5	<5	16.8	16.9	<5		735	<10	<100	446	<50	<5	<200	<10	
3/20/2019					<5	<5	<5	<5	26.3	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
<b>MW-10</b>			<b>SSTLs</b>																		
1/26/2015	3.42-13.42	1.23			<1	<1	<1	<1	<1	<1	<1		<20	<10	<20	<20	<5	<1	<100	<1	
12/8/2015		1.27			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		2.15			<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		1.12			<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019					<5	<5	<5	<5	<5	<5	<5	<0.02		<100	<10	<100	<100	<50	<5	<200	<10
<b>MW-11</b>			<b>SSTLs</b>																		



RBSL					5	1000	700	10000	40	25	5	0.05	240	128		1400		150	10000	47
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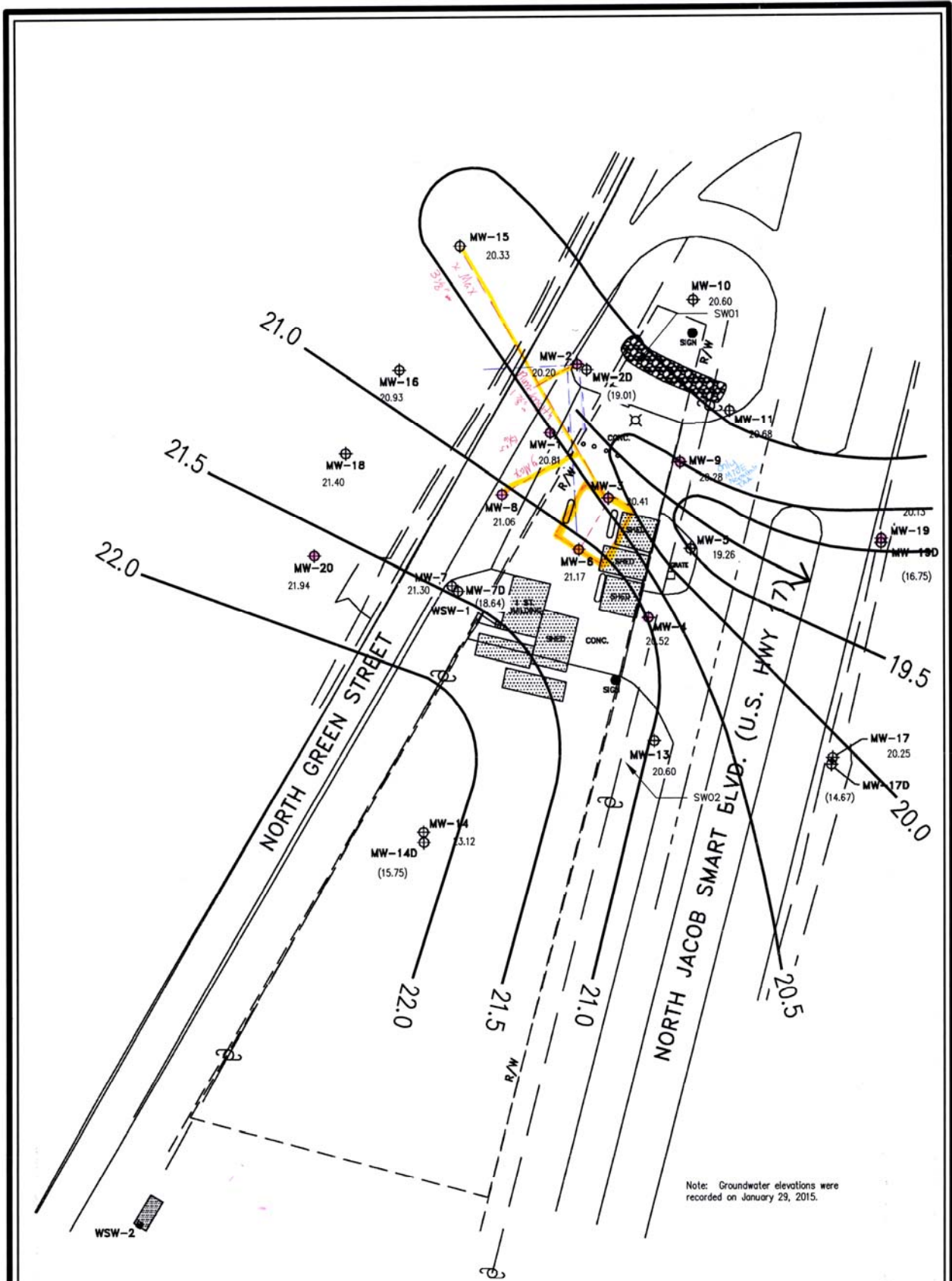
MW-17D	25.31-30.31	SSTLs	12	9.3	1	3.6	<1	<1	<1	<0.02	<20	<10	<20	<20	<5	<1	<100	<1	
1/26/2015																			
12/8/2015		3.72	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		3.88	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		3.16	<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019		3.74	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
<b>MW-18</b>		<b>SSTLs</b>																	
1/26/2015			<1	<1	<1	<1	<1	<1	<1		<20	<10	<20	<20	<5	<1	<100	<1	
12/8/2015		0.19	<5	<5	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		1.61	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		5.53	<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019		3.66	<5	<5	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10	
<b>MW-19</b>		<b>SSTLs</b>																	
1/26/2015			7.7	5.4	0.49J	1.8	<1	<1	<1		<20	<10	<20	<20	<5	<1	200	<1	
12/8/2015		2.00	<5	<5	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		2.84	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		3.30	<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019		2.80	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
<b>MW-19D</b>		<b>SSTLs</b>																	
1/26/2015			<5	2.9J	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10	
12/8/2015		3.65	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		3.83	<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		3.17	<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019		3.18	<5	<5	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10	
<b>MW-20</b>		<b>SSTLs</b>																	
1/26/2015			7.8	200	120	420	<5	98	<5		<100	<50	<100	61J	<25	<5	<500	<5	
12/8/2015		0.22	<5	<5	<5	<5	<5	<5	<5	<0.019	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016		1.89	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017		0.93	<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019		0.39	<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
<b>SW-1</b>		<b>SSTLs</b>																	
1/26/2015			<1	<1	<1	<1	<1	<1	<1		<20	<10	<20	<20	<5	<1	<100	<1	
12/8/2015			<5	0.29J	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
5/13/2016			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
11/30/2017			<5	<5	<5	<5	<5	<5	<5		<100	<10	<100	<100	<50	<5	<200	<10	
3/20/2019			<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	
<b>SW-2</b>		<b>SSTLs</b>																	
1/26/2015			<1	<1	<1	<1	<1	<1	<1		<20	<10	<20	<20	<5	<1	<100	<1	
12/8/2015			<5	0.29J	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10	

RBSL					5	1000	700	10000	40	25	5	0.05	240	128		1400		150	10000	47
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UST Facility: Burnettes Service Station  
UST Permit # 05289

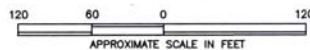
5/13/2016					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
11/30/2017					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
3/20/2019					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
<b>SW-3</b>																				
1/26/2015					<1	<1	<1	<1	<1	<1	<1	<0.02	<20	<10	<20	<20	<5	<1	<100	<1
12/8/2015					<5	2	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
5/13/2016					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
11/30/2017					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
3/20/2019					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
<b>SW-4</b>																				
1/26/2015					<1	<1	<1	<1	<1	<1	<1	<0.02	<20	1.5J	<20	<20	<5	<1	<100	<1
12/8/2015					<5	1.5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
5/13/2016					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
11/30/2017					<5	0.61J	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	174J	<10
3/20/2019					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
<b>SW-5</b>																				
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12/8/2015					<5	0.34J	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
5/13/2016					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
11/30/2017					<5	0.81J	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
3/20/2019					<5	<5	<5	<5	<5	<5	<5	<0.02	<100	<10	<100	<100	<50	<5	<200	<10
<b>WSW-1</b>																				
1/26/2015					<1	<1	<1	<1	<1	<1	<1	<0.02	<20	<10	<20	<20	<5	<1	<100	<1
12/8/2015					<1	<1	<1	<2	<1	<1	<1	<0.02	<100	<10	<100	<100	<50	<1	<200	<10
5/13/2016					<1	<1	<1	<1	<1	<1	<1	<0.02	<100	<10	<100	<100	<50	<1	<200	<10
11/30/2017					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.02	<100	<10	<100	<100	<50	<1	<200	<10
3/20/2019					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.021	<100	<10	<100	<100	<50	<1	<200	<10
<b>WSW-2</b>																				
1/26/2015																				
12/8/2015																				
5/13/2016																				
11/30/2017																				
3/20/2019																				
<b>WSW-3</b>																				
1/26/2015					<1	<1	<1	<1	<1	<1	<1	<0.02	<20	<10	<20	<20	<5	<1	<100	<1
12/8/2015					<1	<1	<1	<2	<1	<1	<1	<0.02	<100	<10	<100	<100	<50	<1	<200	<10
5/13/2016					<1	<1	<1	<1	<1	<1	<1	<0.02	<100	<10	<100	<100	<50	<1	<200	<10
11/30/2017					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.02	<100	<10	<100	<100	<50	<1	<200	<10
3/20/2019					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.02	<100	<10	<100	<100	<50	<1	<200	<10



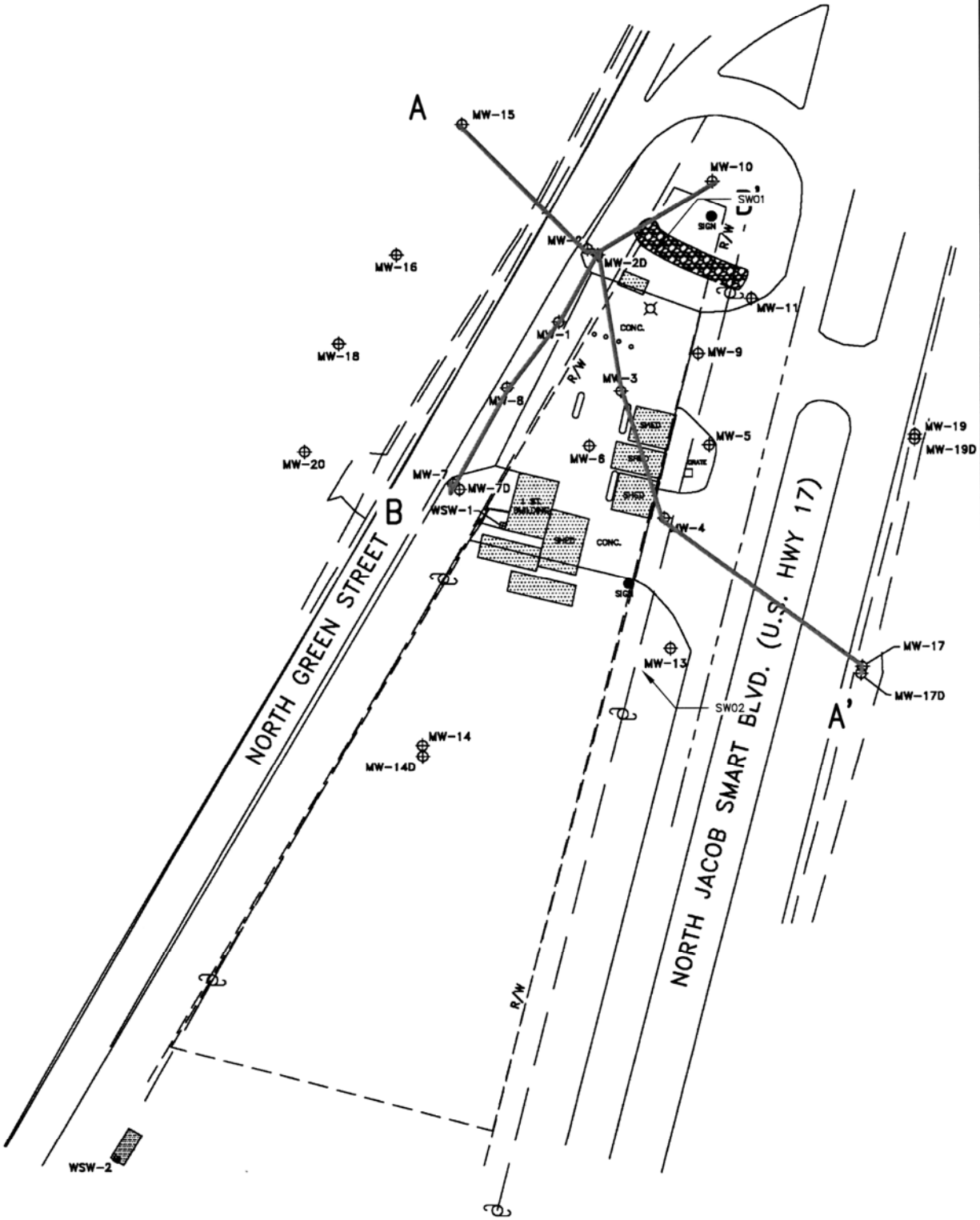


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
-  Groundwater Potentiometric Contour  
Contour Interval = 0.50-foot
- 541.28 Groundwater Elevation
- (541.28) Groundwater Elevation Not Used For Contouring Purposes
-  Approximate Groundwater Flow Direction

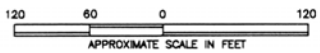


Title	Groundwater Potentiometric Map - Shallow Aquifer		
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015	<b>petra-tech</b> INDUSTRIAL, LLC ENGINEERS & CONSULTANTS	Figure No. 4a
Job No.	J14-080-A		



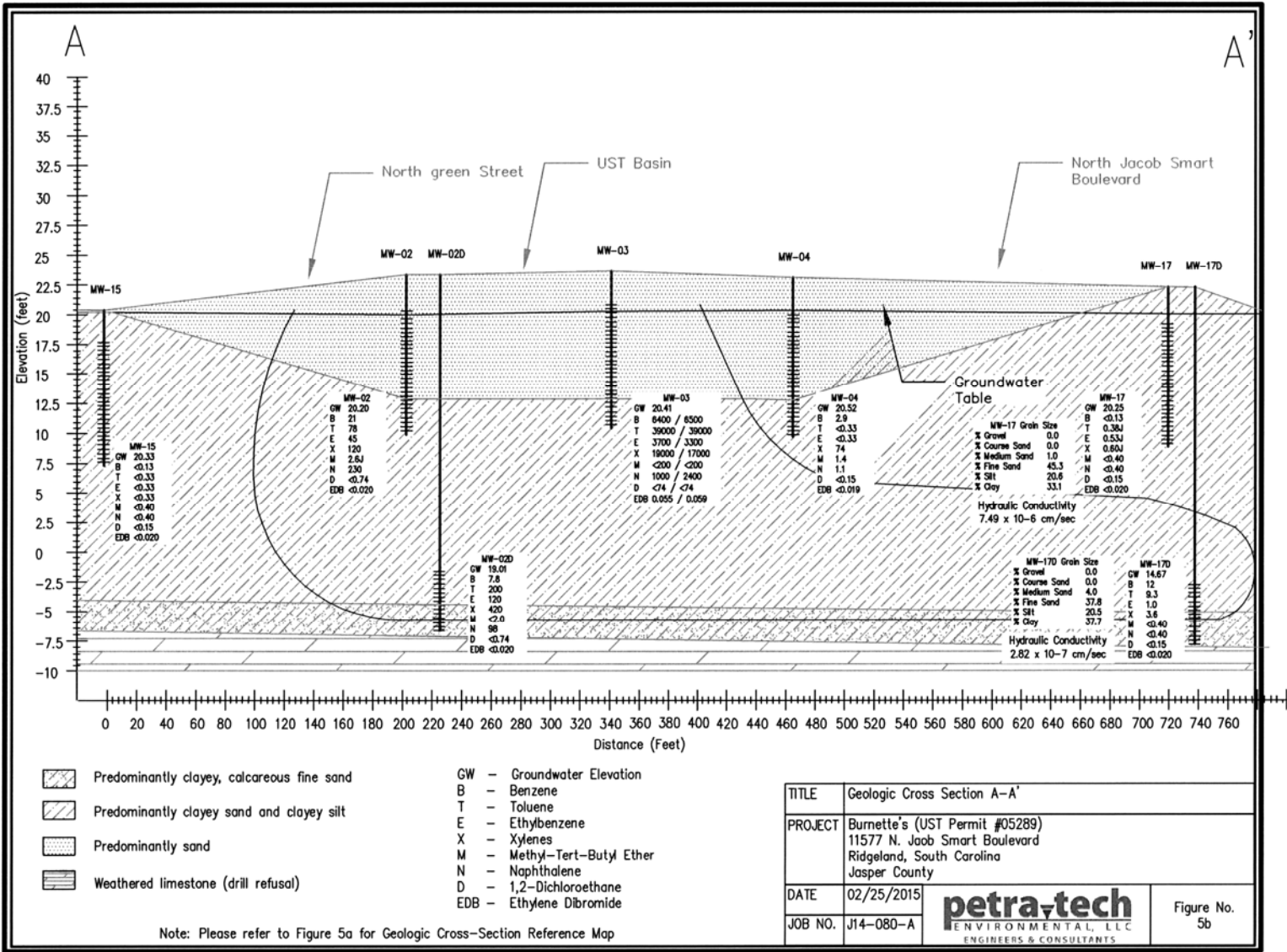
REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

⊕ Groundwater Monitoring Well



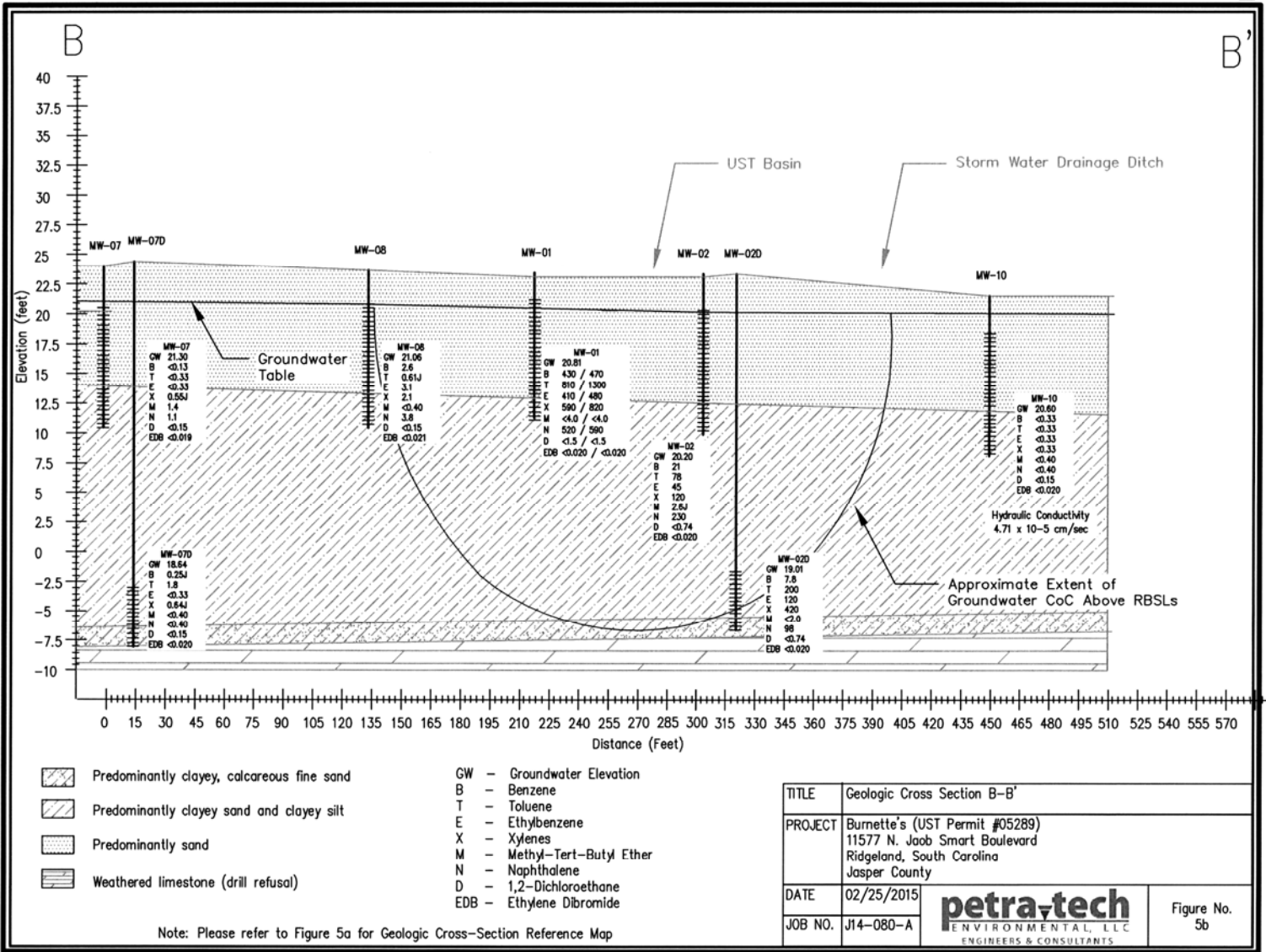
Title	Subsurface Geologic Cross-Section Reference Map		
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015	 petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No.
Job No.	J14-080-A		5a





Note: Please refer to Figure 5a for Geologic Cross-Section Reference Map

TITLE	Geologic Cross Section A-A'	
PROJECT	Burnette's (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
DATE	02/25/2015	
JOB NO.	J14-080-A	
Figure No.	5b	





**Midlands  
Environmental  
Consultants, Inc.**

*Zach*

August 24, 2021

Mr. Matt Wykel, 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

RECEIVED  
AUG 26 2021  
UST DIVISION

Subject: Site-Specific Work Plan  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 21-7660  
Certified Site Rehabilitation Contractor UCC-0009



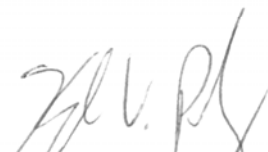
Dear Mr. Wykel,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.


On August 18, 2021, 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 questions or comments, please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



Kyle V. Pudney  
Senior Biologist



Jeff L. Coleman  
Senior Scientist



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

To: Mr. Zachary Griffith (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Burnettes Service Station UST Permit #: 05289
Facility Address: 11577 North Jacob Smart Boulevard, Ridgeland, SC 29936
Responsible Party: Fate Burnette, Sr. Phone: 843-726-5098
RP Address: P.O. Box 1908, Ridgeland, SC 29936
Property Owner (if different): Henry Torres
Property Owner Address: P.O. Box 834, Ridgeland, SC 29936
Current Use of Property: Repair Shop

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (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), Mercury (200.8 245.1 or 245.2), RCRA Metals (200.8), EDB (504.1)

Soil:

- BTEXNM, PAH, Lead, Oil & Grease (9071), RCRA Metals, 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: 24, Monitoring Wells: 24, Water Supply Wells: 4, Surface Water: 5, Air: 3, Duplicate: 3, Field Blank: 2, Trip Blank: 3

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 #: 05289 Facility Name: Burnette's Service Station

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 8/24/2021 Field Work Completion: 9/24/2021  
Report Submittal: 10/24/2021 # 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-Monitoring wells MW-1, MW-14, MW-14D, MW-15, MW-16, MW-17, MW-17D, MW-18 and MW-20 were unable to be located. MECI will make every effort possible to locate these wells during sampling activities. It is possible that MW-1 is paved over and the remainder of the wells were located in overgrown flooded areas.

-Samples will be analyzed for BTEXNM, DCA, Oxy's and EDB by appropriate methods.

-All wells will be purged prior to sample collection.

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



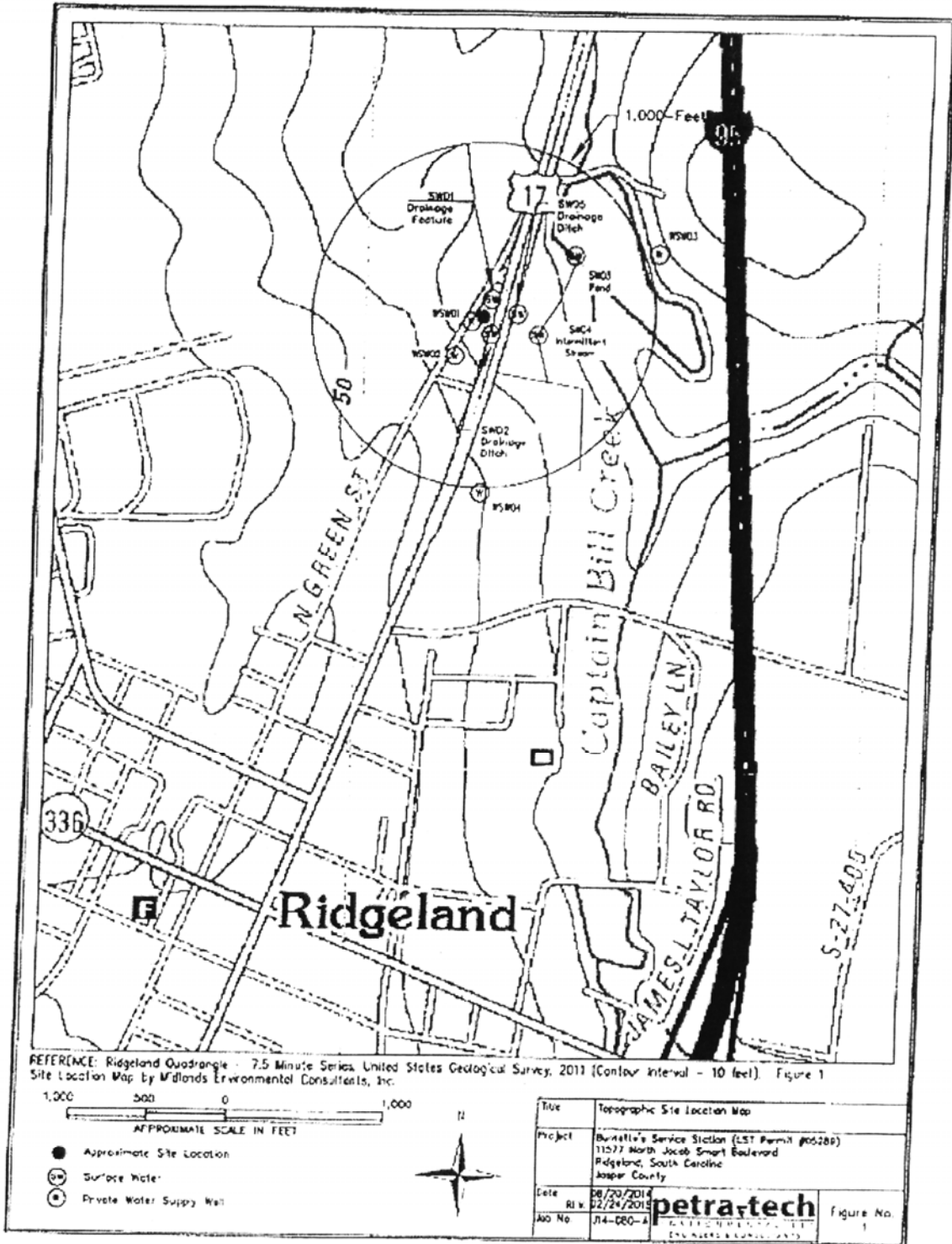
**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

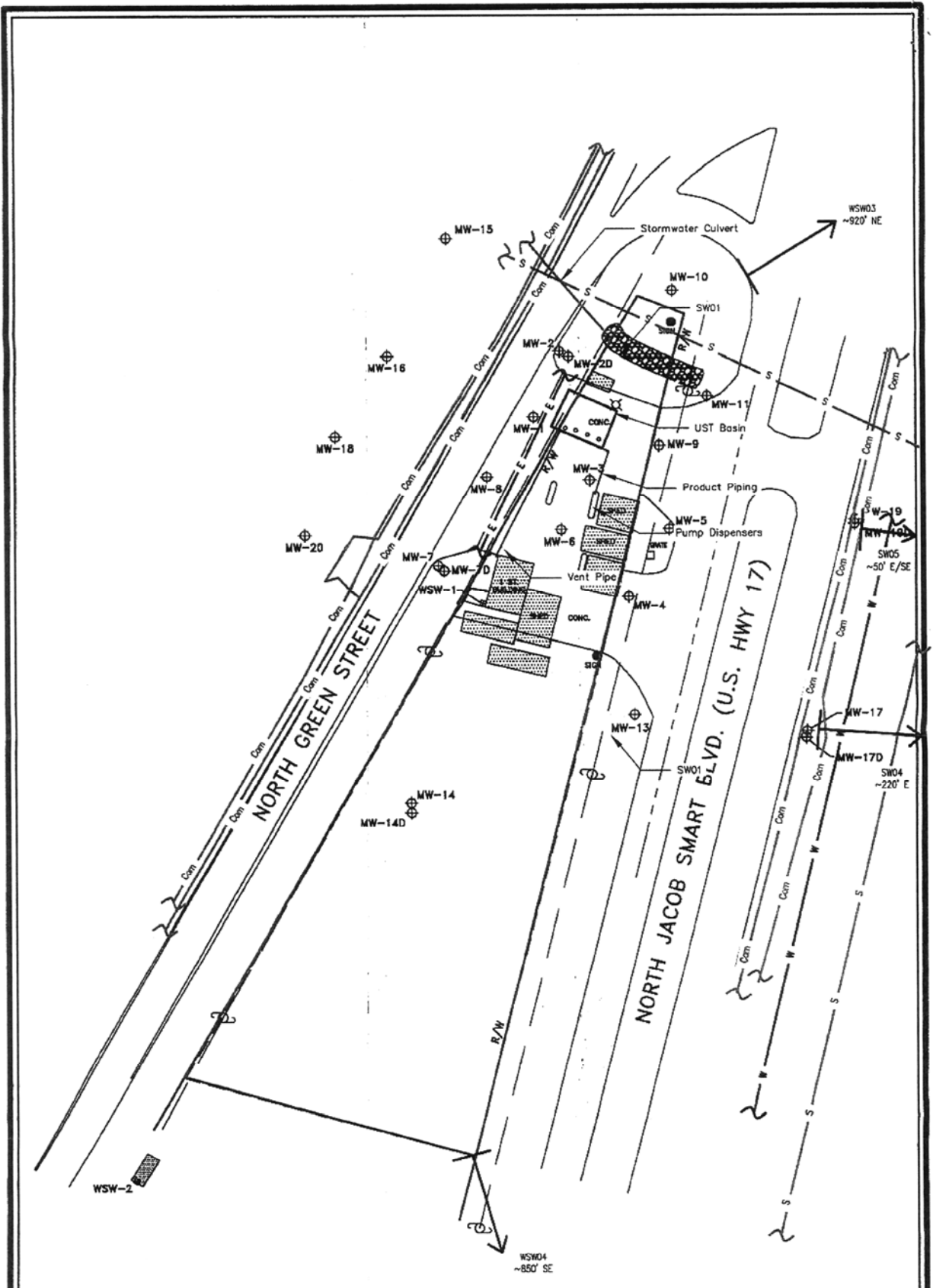
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO # 4600830568**

**Facility Name:** Burnettes Service Station

**UST Permit #:** 05289      **Cost Agreement #:** 63257

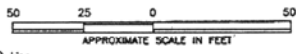
ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
<b>A. Plan Preparation</b>					
1. Site Specific Work Plan	1	each	\$425.00		\$425.00
2. Tax Map		each	\$50.00		\$0.00
<b>B. Receptor Survey</b>					
		each	\$50.00		\$0.00
<b>D. Mob/Demob</b>					
2. Personnel	2	each	\$610.00		\$1,220.00
<b>J. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>					
1. Groundwater Purge	24	per well	\$10.00		\$240.00
2. Air or Vapors		per sample	\$1.00		\$0.00
3. Water Supply Sample	4	per sample	\$40.00		\$160.00
4. Groundwater No Purge/Surface Water	5	per sample	\$8.00		\$40.00
R-1. HydraSleeve		per sample	\$23.00		\$0.00
5. Gauge Well 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
<b>Q. Disposal (gallons or tons)</b>					
1. Wastewater	300	per gallon	\$0.33		\$99.00
2. Free Product		per gallon	\$0.05		\$0.00
<b>R. Miscellaneous</b>					
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
<b>Y. Well Repair</b>					
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
<b>Subtotal</b>					<b>\$2,184.00</b>
<b>S. Report Preparation/Project Coordination</b>			Percent of Subtotal	0%	
<b>TOTAL</b>					<b>\$2,184.00</b>





REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- E — Approximate Location of Underground Electric Line
- Com — Approximate Location of Underground Communication (Cable/Phone) Line
- W — Approximate Location of Underground Water Line
- G — Approximate Location of Underground Gas Line
- S — Approximate Location of Underground Sewer/Stormwater Line
- — — Approximate Property Boundary



Title	Site Base Map
Project	Burnell's Service Station (UST Permit #02209) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County
Date	02/25/2015
Job No.	J14-080-A
Figure No.	3





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 #4600830568  
Burnettes Service Station, 11577 North Jacob Smart Boulevard, Ridgeland, SC  
UST Permit #05289; MECI CA #63257; Pace CA #63258  
Jasper 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 [brownaj@dhec.sc.gov](mailto:brownaj@dhec.sc.gov) or phone (803) 898-0500. If you have any contract specific questions, please contact Robert Dunn by email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov) or phone (803) 898-0671.

Sincerely,

A handwritten signature in black ink, appearing to read "Arthur Brown".

Arthur Brown, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Ms. Lindsey Wooten, Pace Analytical Services, 9800 Kinsey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)  
Technical File (w/ Enc)

# Approved Cost Agreement 63257

Facility: 05289 BURNETTES SERVICE STATION

BROWNAJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
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	24.0000	\$10.000	240.00
		3 WATER SUPPLY SAMPLE/ DUPLICATE	4.0000	\$40.000	160.00
		4.2 NO-PURGE GW SAMPLE/SURFACE	5.0000	\$8.000	40.00
Q DISPOSAL		1 WASTEWATER	300.0000	\$0.330	99.00
<b>Total Amount</b>					<b>2,184.00</b>

# Approved Cost Agreement 63258

Facility: 05289 BURNETTES SERVICE STATION

BROWNAJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
K ANALYSES					
DW DRINKING WATER		14 BTEXNM+1,2 DCA (524.2) WSW	7.0000	\$42.000	294.00
		15 OXYGENATES & ETHANOL 8260B WSW	7.0000	\$20.000	140.00
		16 EDB (504.1) WSW	6.0000	\$22.000	132.00
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
<b>Total Amount</b>					<b>2,154.00</b>

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# MONITORING REPORT

Burnette's Service Station  
11577 North Jacob Smart Boulevard  
Ridgeland, South Carolina  
Jasper County  
UST Permit# 05289; CA# 63257  
Solicitation# IFB-5400021335; PO# 4600830568

*Prepared By:*

 Midlands  
Environmental  
Consultants, Inc.  
231 Dooley Road, Lexington, SC 29073  
(803) 808-2043 fax: 808-2048

October 15, 2021

MECI Project No. 21-7660

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October 15, 2021

Mr. Matt Wykel, 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  
Burnette's Service Station  
11577 North Jacob Smart Boulevard  
Ridgeland, South Carolina  
Jasper County  
UST Permit# 05289; CA# 63257  
MECI Project Number 21-7660  
Certified Site Rehabilitation Contractor UCC-0009


Dear Mr. Wykel,

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

  
Bryan T. Shane, P.G.  
Principal Geologist

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## 1.0 INTRODUCTION

### i. Facility Information

Name: Burnette's Service Station  
 Address: 11577 N Jacob Smart Blvd, Ridgeland, SC 29936  
 Telephone #: N/A

### ii. Owner/Operator Information

Name: Burnette, Fate C.  
 Address: PO Box 1908, Ridgeland, SC 29936-0443  
 Telephone #: 803-726-5098

### iii. Property Owner Information

Name: Torres, Henry A.  
 Tax Map #: Jasper County Tax Map#: 062-22-03-001  
 Address: PO Box 834, Ridgeland SC 29927  
 Telephone #: N/A

### iv. Contractor Information

Name: Midlands Environmental Consultants, Inc.  
 Certification #: 9  
 Address: P. O. Box 854, Lexington, SC 29071  
 Telephone #: (803) 808-2043

### v. Facility History

<b>Release Date:</b>	12/31/1991		
<b>Estimated Quantity of Release:</b>	Unknown		
<b>Other Releases at Facility:</b>	N/A		
<b>Release Ranking:</b>	2AB		
<b>Current Site Usage:</b>	Repair Shop		
<b>Tank #</b>	<b>Capacity/Product</b>	<b>In Use/Abandoned</b>	<b>Tank Status</b>
1	4,000 Gal. Gasoline	Abandoned	Removed (Unknown)
2	4,000 Gal. Gasoline	Abandoned	Removed (Unknown)
3	6,000 Gal. Gasoline	Abandoned	Removed (Unknown)
4	3,000 Gal. Diesel Fuel	Abandoned	Removed (Unknown)



## 2.0 RECEPTOR SURVEY & SITE DATA

### i. Known Potential Receptors

Receptor ID#	Notes
SW-1	Surface Water Feature near MW-13
SW-2	Drainage ditch / 32.49205, -80.97617
SW-3	Captain Bill Creek after pond / 32.493881, -80.974578
SW-4	Captain Bill Creek before pond / 32.491522, -80.973997
SW-5	Pond / 32.49373, -80.97455
WSW-1	11577 N. Jacob Smart Blvd
WSW-2	SW of Site / Well Inactive
WSW-3	10754 N. Jacob Smart Blvd
WSW-4	~850' SE of Site

### 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	Industrial
South	Commercial
East	Forest, Agricultural
West	Residential
Permit #'s of UST Sites within 1,000' feet of site	N/A

## 3.0 SAMPLING AND CHEMICAL ANALYSES

On September 30, 2021, MECI personnel collected groundwater samples from twenty (20) monitoring wells and four (4) surface water features. Monitoring well MW-6 was gauged and determined to contain free phase petroleum product at a thickness of 0.04 feet. Several monitoring wells and receptors were unable to be sampled (Please See Site Activity Summary Sheets for Details). Based on a request from SCDHEC, all monitoring wells were to be purged prior to sample collection. Twenty (20) monitoring wells were 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							
MW-2	X						X	X	X				
MW-2D	X						X	X	X				
MW-3	X						X	X	X				
MW-4	X						X	X	X				
MW-5	X						X	X	X				
MW-6			X				X	X	X				
MW-7	X						X	X	X				
MW-7D	X						X	X	X				
MW-8	X						X	X	X				
MW-9	X						X	X	X				
MW-10	X						X	X	X				
MW-11	X						X	X	X				
MW-13	X						X	X	X				
MW-14					X								
MW-14D					X								
MW-15	X						X	X	X				
MW-16	X						X	X	X				
MW-17	X						X	X	X				
MW-17D	X						X	X	X				
MW-18	X						X	X	X				
MW-19	X						X	X	X				
MW-19D	X						X	X	X				
MW-20	X						X	X	X				
SW-1					X								
SW-2							X	X	X				
SW-3							X	X	X				
SW-4							X	X	X				
SW-5							X	X	X				
DUP-1(MW-8)							X	X	X				
DUP-2(MW-3)							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

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)
WSW-1					X								
WSW-2					X								
WSW-3					X								
WSW-4					X								
DUP (WSW-3)					X								
Field Blank-WSW					X								
Trip Blank-WSW					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 225.75 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 North-East toward Captain Bill Creek.
- Free phase petroleum product was detected in monitoring well MW-6 during sampling activities. Of the twenty-five (25) monitoring well and surface water sampling locations analyzed, four (4) exhibited petroleum constituents detected above Risked 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-6
Benzene	5	MW-3, MW-8
Toluene	1,000	MW-3
Ethylbenzene	700	MW-3
Total Xylenes	10,000	MW-3
Naphthalene	25	MW-3, MW-8
MTBE	40	N/A
1,2 DCA	5	N/A
EDB	0.05	N/A
TAA	240	MW-8, MW-9
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 MW-3 & MW-8. 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 - Monitoring Well Water Samples  
 BURNETTES SELF SERVICE  
 05289

Analytical Method		EPA 8260D																		
Sample ID	Constituent of Concern	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amyl methyl 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		09/30/2021	<500	<10000	1470	<500	<20000	<1000	1940	N/A	<500	959	12300	11600	7760	3820	<10000	<1000	<10000	<5000
DUP-2		09/30/2021	<5.0	<100	25.8	<5.0	<200	<10.0	83.7	N/A	<5.0	29.9	<5.0	19.4	19.4	<5.0	426	<10.0	208	<50.0
FB		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-10		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-11		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-13		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-15		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-16		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-17		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-17D		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-18		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-19		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-19D		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-2		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	24.8	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	469	<50.0
MW-20		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-2D		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-3		09/30/2021	<500	<10000	1220	<500	<20000	<1000	1770	N/A	<500	938	10400	10200	6740	3490	<10000	<1000	<10000	<5000
MW-4		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	73.5	73.5	<5.0	<100	<10.0	<100	<50.0
MW-5		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-7		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-7D		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-8		09/30/2021	<5.0	<100	23.8	<5.0	<200	<10.0	78.9	N/A	<5.0	26.1	<5.0	17.6	17.6	<5.0	370	<10.0	180	<50.0
MW-9		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	21.2	<5.0	<5.0	<5.0	<10.0	<5.0	274	<10.0	212	<50.0
SW-2		09/30/2021	<1.0	<100	<1.0	<1.0	<200	N/A	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<100	<10.0	<100	<50.0
SW-3		09/30/2021	<1.0	<100	<1.0	<1.0	<200	N/A	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<100	<10.0	<100	<50.0
SW-4		09/30/2021	<1.0	<100	<1.0	<1.0	<200	N/A	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<100	<10.0	<100	<50.0
SW-5		09/30/2021	<1.0	<100	<1.0	<1.0	<200	N/A	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<100	<10.0	<100	<50.0
TB		09/30/2021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	N/A	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
South Carolina RBSL for Groundwater			5	N/A	5	150	10000	47	700	N/A	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	150	10000	47	N/A	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 #: 05289  
 Facility Name: Burnette's Station  
 County: Jasper  
 Field Personnel: J. C., T. A., M. F.

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-1	N	9/30/21	NL	2-12	***	NL	***	23.05	NL	NL	NL	Not Located; Paved Over
MW-2	Y	9/30/21	10:09	3.68-13.68	***	3.49	***	23.21	19.72	4.02	8.50	No Odor
MW-2D	Y	9/30/21	10:19	24.80-29.80	***	3.53	***	22.79	19.26	4.94	13.00	No Odor
MW-3	Y	9/30/21	10:28	3.12-13.12	***	2.09	***	23.49	21.40	3.89	9.00	Odor; Duplicated as DUP-2
MW-4	Y	9/30/21	11:14	3.59-13.59	***	2.64	***	22.93	20.29	2.98	9.00	No Odor
MW-5	Y	9/30/21	11:20	3.66-13.66	***	0.70	***	22.14	21.44	3.54	11.00	No Odor
MW-6	N	9/30/21	FPP	3.29-13.29	2.72	2.76	0.04	23.73	21.01	FPP	FPP	Free Phase Product
MW-7	Y	9/30/21	11:46	3.75-13.75	***	2.22	***	23.94	21.72	3.03	10.00	No Odor
MW-7D	Y	9/30/21	12:24	27.29-32.29	***	1.87	***	23.96	22.09	4.67	25.00	No Odor
MW-8	Y	9/30/21	10:42	3.45-13.45	***	2.45	***	23.76	21.31	2.81	9.25	Odor; Duplicated as DUP-1
MW-9	Y	9/30/21	11:30	3.76-13.76	***	0.60	***	22.30	21.70	3.64	11.00	No Odor
MW-10	Y	9/30/21	10:39	3.42-13.42	***	0.02	***	21.07	21.05	4.48	11.00	No Odor
MW-11	Y	9/30/21	12:31	3.65-13.65	***	0.80	***	21.41	20.61	4.05	11.00	No Odor
MW-13	Y	9/30/21	12:50	3.62-13.62	***	0.90	***	21.96	21.06	2.97	10.50	No Odor
MW-14	N	9/30/21	NS	3.72-13.72	***	NS	***	24.40	NS	NS	NS	Denied Access to Property
											138.25	<b>TOTAL GALLONS PURGED</b>

**Table 2**  
**Site Activity Summary**



UST Permit #: 05289  
 Facility Name: Burnette's Station  
 County: Jasper  
 Field Personnel: J. C., T. A., M. F.

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-14D	N	9/30/21	NS	18.57-23.57	***	NS	***	24.55	NS	NS	NS	Denied Access to Property
MW-15	Y	9/30/21	12:57	3.64-13.64	***	0.83	***	20.33	19.50	4.34	10.75	No Odor
MW-16	Y	9/30/21	13:20	1.85-11.85	***	5.10	***	24.35	19.25	4.95	8.25	No Odor, 3.25' Stick-Up Vault
MW-17	Y	9/30/21	13:21	3.71-13.71	***	2.84	***	22.17	19.33	2.84	9.00	No Odor
MW-17D	Y	9/30/21	13:37	25.31-30.31	***	3.87	***	22.28	18.41	3.06	21.75	No Odor
MW-18	Y	9/30/21	13:44	2.38-12.38	***	4.71	***	24.44	19.73	4.89	9.00	No Odor, 2.72' Stick-Up Vault
MW-19	Y	9/30/21	14:15	3.80-13.80	***	2.71	***	22.14	19.43	3.90	9.50	No Odor
MW-19D	Y	9/30/21	13:39	26.94-31.94	***	3.59	***	22.18	18.59	4.61	8.50	No Odor
MW-20	Y	9/30/21	14:17	3.17-13.17	***	0.40	***	21.94	21.54	5.64	10.75	Odor
SW-1	N	9/30/21	NS	***	***	***	***	***	***	***	***	Denied Access to Property
SW-2	Y	9/30/21	13:37	***	***	***	***	***	***	***	***	Taken from drainage ditch / 32.49205, -80.97617
SW-3	Y	9/30/21	13:45	***	***	***	***	***	***	***	***	Taken from Captain Bill Creek after pond / 32.493881, -80.974578
SW-4	Y	9/30/21	14:27	***	***	***	***	***	***	***	***	Taken from Captain Bill Creek before pond / 32.491522, -80.973997
SW-5	Y	9/30/21	14:35	***	***	***	***	***	***	***	***	Taken from Pond / 32.49373, -80.97455
DUP-1	Y	9/30/21	10:42	***	***	***	***	***	***	***	***	Duplicate of MW-8
											87.50	<b>TOTAL GALLONS PURGED</b>



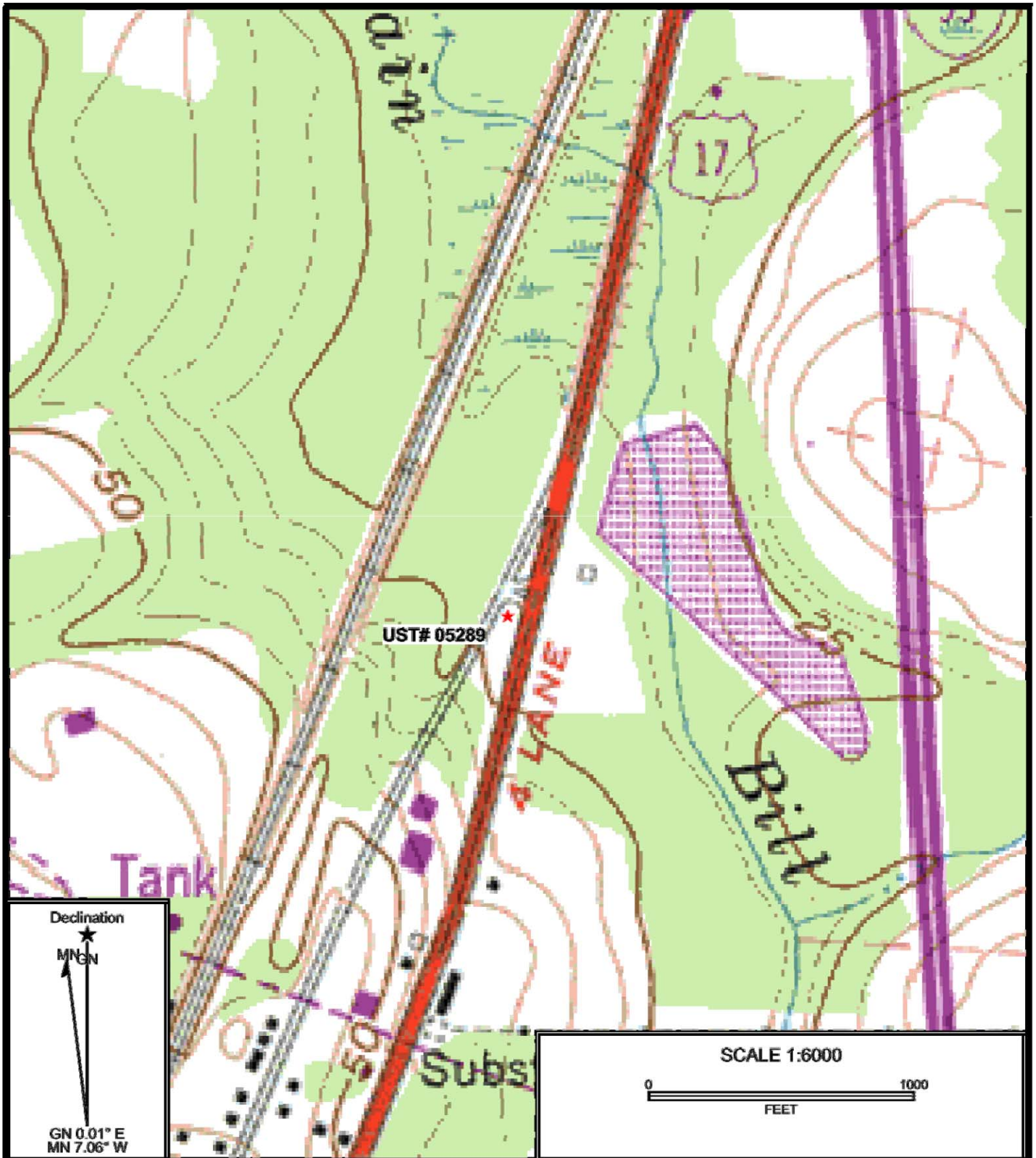
**Table 2**  
**Site Activity Summary**



UST Permit #: 05289  
 Facility Name: Burnette's Station  
 County: Jasper  
 Field Personnel: J. C., T. A., M. F.

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
DUP-2	Y	9/30/21	10:20	***	***	***	***	***	***	***	***	Duplicate of MW-3
Field Blank	Y	9/30/21	14:40	***	***	***	***	***	***	***	***	Field Blank
Trip Blank	Y	9/30/21	8:00	***	***	***	***	***	***	***	***	Trip Blank
WSW-1	N	9/30/21	NS	***	***	***	***	***	***	***	***	11577 N. Jacob Smart Blvd., Permission Denied
WSW-2	N	9/30/21	NS	***	***	***	***	***	***	***	***	Well Inactive
WSW-3	N	9/30/21	NS	***	***	***	***	***	***	***	***	10754 N. Jacob Smart Blvd., Sample collected from spigot on front of house/church
WSW-4	N	9/30/21	NS	***	***	***	***	***	***	***	***	No address posted; ~850' SE of Site; Permission Denied
WSW-DUP	N	9/30/21	NS	***	***	***	***	***	***	***	***	Duplicate sample
Filed Blank	N	9/30/21	NS	***	***	***	***	***	***	***	***	Field Blank-WSW
Trip Blank	N	9/30/21	NS	***	***	***	***	***	***	***	***	Trip Blank-WSW
											0.00	TOTAL GALLONS PURGED

## FIGURES



UST# 05289

Declination  
 ★  
 MGN  
 GN 0.01° E  
 MN 7.06° W

SCALE 1:6000



Reference: Ridgeland, South Carolina  
 USGS 7.5 Min. Quad  
 Contour Interval-5 feet

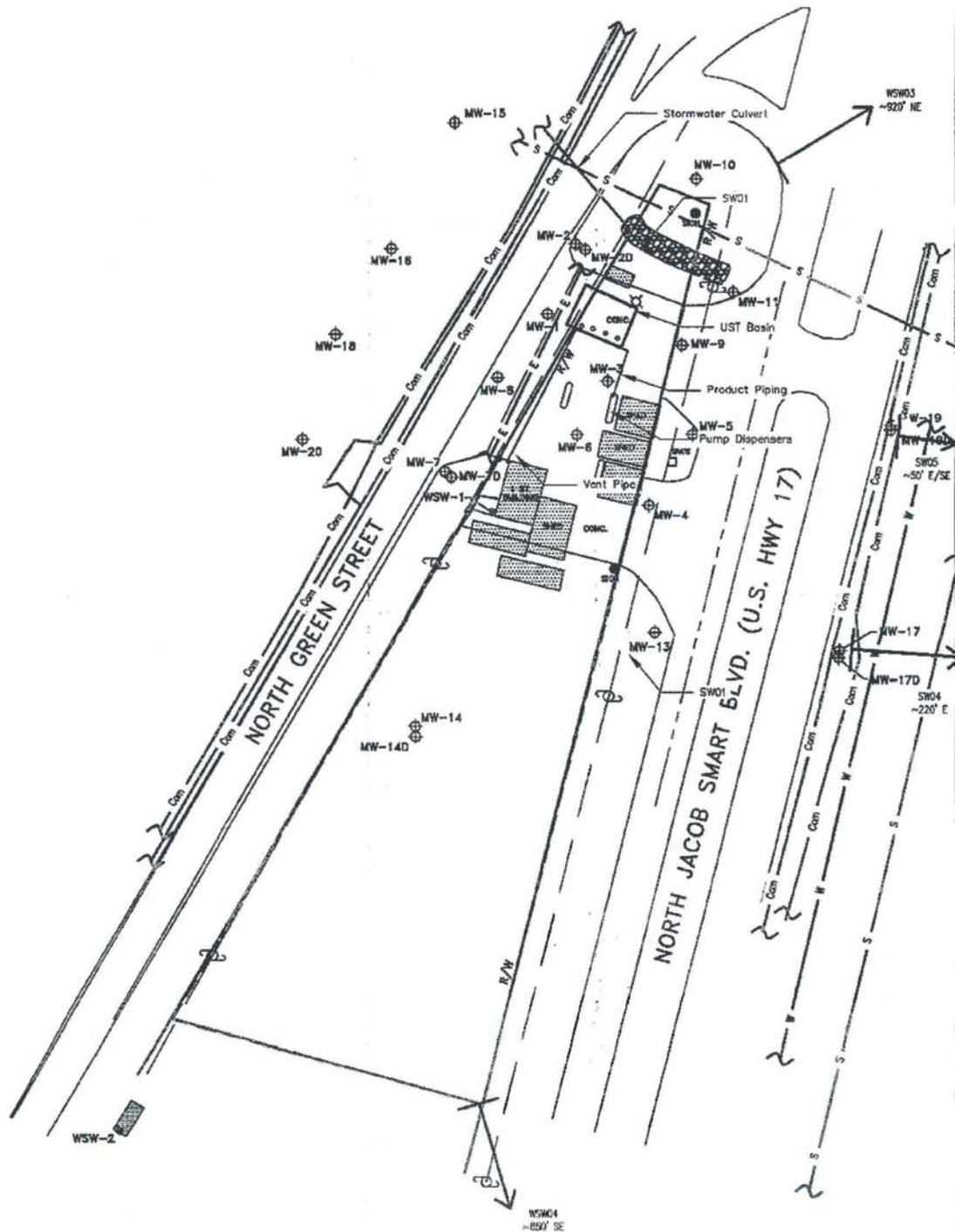
Midlands  
 Environmental  
 Consultants, Inc.

Site Location

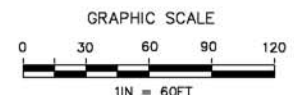
Burnette's Service Station  
 11577 N/ Jacob Smart Boulevard, Ridgeland, SC  
 SCDHEC Site ID\* 05289

Figure 1

MECI 21-7660



- REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015
- Groundwater Monitoring Well
  - Approximate Location of Underground Electric Line
  - Approximate Location of Underground Communication (Cable/Fiber) Line
  - Approximate Location of Underground Water Line
  - Approximate Location of Underground Gas Line
  - Approximate Location of Underground Sewer/Stormwater Line
  - Approximate Property Boundary

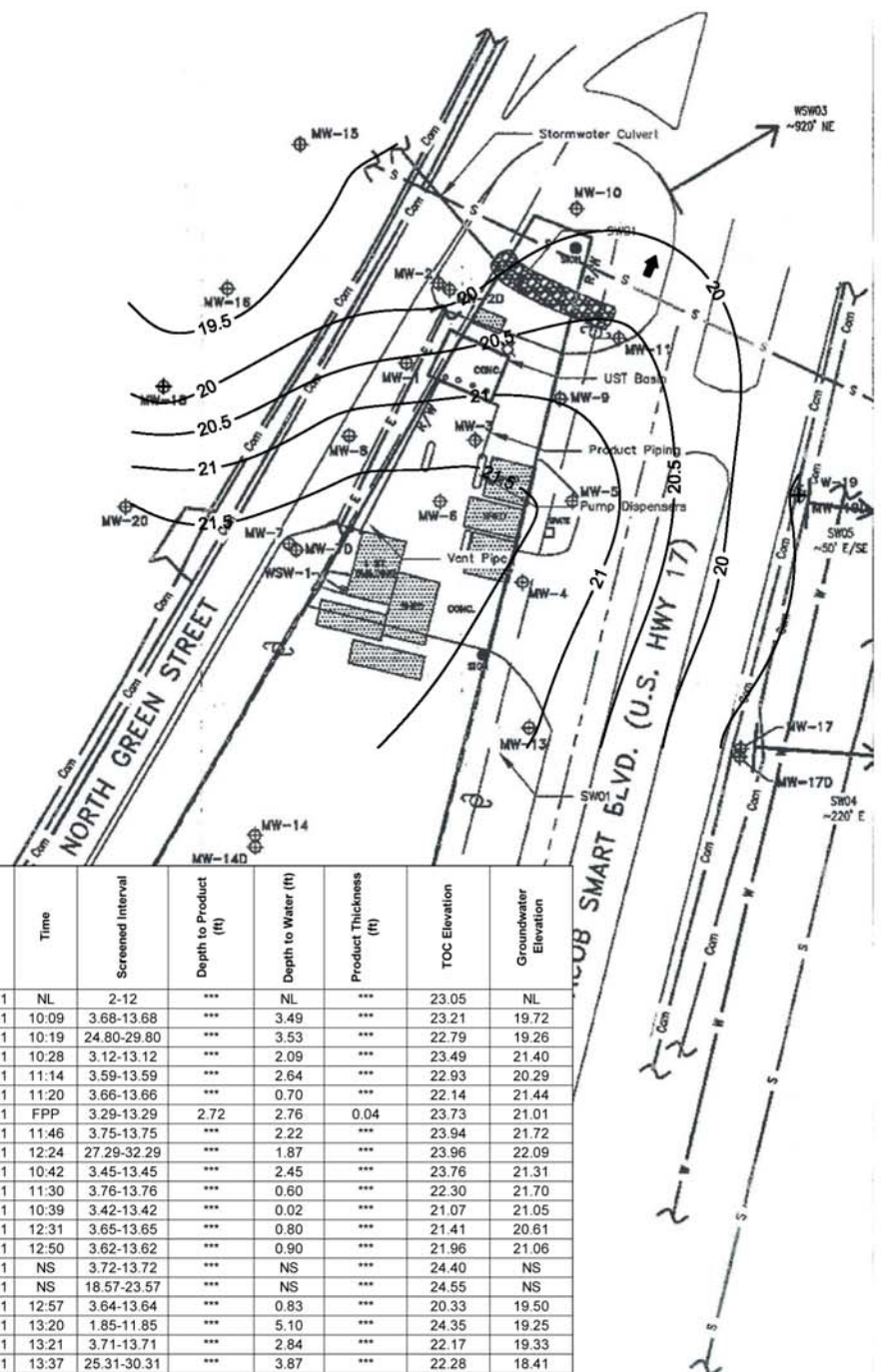


ALL LOCATIONS ARE APPROXIMATE

Drawing Based on Figure 3 by Petratch Environmental, LLC., dated 2/15/2015.

<b>Site Base Map</b>	
Burnette's Service Station 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina SCDHEC Site ID 05209	
	JOB NO. 21-7690 DATE October 15, 2021
	FIGURE 2

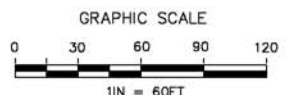




Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
MW-1	N	9/30/21	NL	2-12	***	NL	***	23.05	NL
MW-2	Y	9/30/21	10:09	3.68-13.68	***	3.49	***	23.21	19.72
MW-2D	Y	9/30/21	10:19	24.80-29.80	***	3.53	***	22.79	19.26
MW-3	Y	9/30/21	10:28	3.12-13.12	***	2.09	***	23.49	21.40
MW-4	Y	9/30/21	11:14	3.59-13.59	***	2.64	***	22.93	20.29
MW-5	Y	9/30/21	11:20	3.66-13.66	***	0.70	***	22.14	21.44
MW-6	N	9/30/21	FPP	3.29-13.29	2.72	2.76	0.04	23.73	21.01
MW-7	Y	9/30/21	11:46	3.75-13.75	***	2.22	***	23.94	21.72
MW-7D	Y	9/30/21	12:24	27.29-32.29	***	1.87	***	23.96	22.09
MW-8	Y	9/30/21	10:42	3.45-13.45	***	2.45	***	23.76	21.31
MW-9	Y	9/30/21	11:30	3.76-13.76	***	0.60	***	22.30	21.70
MW-10	Y	9/30/21	10:39	3.42-13.42	***	0.02	***	21.07	21.05
MW-11	Y	9/30/21	12:31	3.65-13.65	***	0.80	***	21.41	20.61
MW-13	Y	9/30/21	12:50	3.62-13.62	***	0.90	***	21.96	21.06
MW-14	N	9/30/21	NS	3.72-13.72	***	NS	***	24.40	NS
MW-14D	N	9/30/21	NS	18.57-23.57	***	NS	***	24.55	NS
MW-15	Y	9/30/21	12:57	3.64-13.64	***	0.83	***	20.33	19.50
MW-16	Y	9/30/21	13:20	1.85-11.85	***	5.10	***	24.35	19.25
MW-17	Y	9/30/21	13:21	3.71-13.71	***	2.84	***	22.17	19.33
MW-17D	Y	9/30/21	13:37	25.31-30.31	***	3.87	***	22.28	18.41
MW-18	Y	9/30/21	13:44	2.38-12.38	***	4.71	***	24.44	19.73
MW-19	Y	9/30/21	14:15	3.80-13.80	***	2.71	***	22.14	19.43
MW-19D	Y	9/30/21	13:39	26.94-31.94	***	3.59	***	22.18	18.59
MW-20	Y	9/30/21	14:17	3.17-13.17	***	0.40	***	21.94	21.54

- REFERENCE: Site Survey by Southern Land Surveying dated 14 February 2015
- Groundwater Monitoring Well
  - Approximate Location of Underground Electric Line
  - Approximate Location of Underground Communication (Cable/Fiber) Line
  - Approximate Location of Underground Water Line
  - Approximate Location of Underground Gas Line
  - Approximate Location of Underground Sewer/Stormwater Line
  - Approximate Property Boundary

Estimated Groundwater Flow Direction



ALL LOCATIONS ARE APPROXIMATE

Drawing Based on Figure 3 by Petratch Environmental, LLC., dated 2/15/2015.

**Potentiometric Data Site Map**

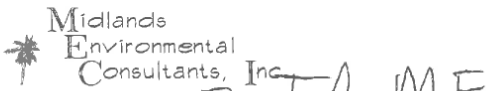
Bumette's Service Station  
 11571 N. Jacob Smart Boulevard  
 Ridgeland, South Carolina  
 SCDHEC Site ID 05209

**Midlands Environmental Consultants, Inc.**

JOB NO. 21-7590
DATE October 15, 2021
FIGURE
4

**APPENDIX A:**

**SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS**



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, TA, MF  
 Sampling Date(s): 9/13/01  
 Sampling Case#: 2

Job Name: Burnetts  
 Job Number: 21-7667

Calibration Data for:  
 Calibration Successful: Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: 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):		Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	final H <sub>2</sub> O			**calc.	actual	
mw-1	Initial									2-12				DWS DNL
	1st													
	2nd													
	3rd													
	4th													
	5th													
mw-2	Initial	9:57	7.14	622	27.4	4.02	16.18			3.68-		1.66		no odor
	1st	9:59	7.29	636	27.1	4.24	89.04			13.68				
	2nd	10:01	7.34	639	26.8	4.29	114.2	3.49			10.19	8.50		
	3rd	10:05	7.37	642	26.4	4.33	86.11							
	4th	10:06	7.40	642	26.1	4.33	54.22							
	5th	10:09	7.41	640	25.9	4.34	20.08					8.30		
mw-2D	Initial	9:59	6.96	374.4	27.6	4.94	9.64			29.8-		4.28		Dry @ no odor
	1st	10:05	7.31	391.2	27.2	5.05	89.67			29.8				
	2nd	10:10	7.54	397.6	27.0	5.09	94.02	3.53	3.51		26.27			
	3rd	10:14	7.55	401.8	26.9	5.11	54.06							
	4th													
	5th													
mw-3	Initial	10:19	7.56	440.2	26.8	5.12	8.91			3.12-		1.71		9-000 color pH 2
	1st	10:08	6.06	278.6	26.6	3.89	24.11							
	2nd	10:12	6.16	306.9	26.2	4.03	86.34			13.12				
	3rd	10:16	6.20	308.5	25.8	4.09	120.5	2.09			11.03			
	4th	10:20	6.21	308.9	25.6	4.12	69.74							
	5th	10:24	6.23	309.1	25.6	4.14	26.12							
Sampling	10:28	6.24	311.9	25.5	4.14	29.09						8.98		

\*= (Depth of Well) - (Depth to Water) = Water Height  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

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





## Monitoring Well Purge And Sampling Data

Field Personnel: JC, TA, MF  
 Sampling Date(s): 9/30/11  
 Sampling Case#: 2

Job Name: Burnetts  
 Job Number: 21-7669

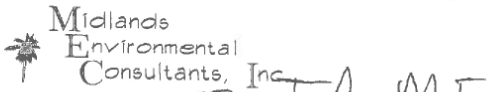
Calibration Data for:  
 Calibration Successful?  Yes or No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity:  Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
mw-4	Initial	10:54	6.09	127.2	25.2	2.92	70.02								
	1st	11:02	6.21	137.4	23.9	3.67	124.6								
	2nd	11:05	6.30	141.2	23.6	3.72	137.4								
	3rd	11:06	6.32	141.6	23.2	3.76	141.2			2.64	3.59	10.95	1.78	9.00g	no odor
	4th	11:12	6.35	141.7	23.0	3.77	54.07								
	5th	11:14	6.37	141.6	23.1	3.79	65.06								
	Sampling												8.92		
mw-5	Initial	11:07	7.07	134.6	24.5	3.54	24.71								
	1st	11:08	7.30	146.6	23.6	4.02	134.6								
	2nd	11:12	7.37	149.2	23.1	4.07	146.2								
	3rd	11:15	7.41	151.0	22.9	4.11	64.09			0.7	3.66	12.96	2.11	11.00g	no odor
	4th	11:17	7.44	152.2	22.7	4.13	26.07								
	5th	11:20	7.46	152.3	22.7	4.14	29.02								
	Sampling												10.56		
mw-6	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
mw-7	Initial	11:34	6.54	189.2	22.4	3.03	76.70								
	1st	11:36	6.67	222.6	26.3	3.34	131.7								
	2nd	11:39	6.71	228.9	25.6	3.44	149.2								
	3rd	11:41	6.75	231.2	25.1	3.49	100.1								
	4th	11:44	6.77	233.0	24.8	3.51	54.06			2.22	3.75	11.53	1.87	10.0g	no odor
	5th	11:46	6.79	233.1	24.7	3.52	34.47								
	Sampling												9.39		

\* = (Depth of Well) - (Depth to Water = Water Height)  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

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



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, TA, MF  
 Sampling Date(s): 9/30  
 Sampling Case#: 2

Job Name: Burnetts  
 Job Number: 21-7669

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):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW 7D	Initial	12:02	7.49	129.2	30.2	4.67	9.81								
	1st	12:06	7.67	136.7	29.6	4.72	64.03		1.87		32.29				
	2nd	12:11	7.71	141.0	28.9	4.77	81.02		<del>3.07</del>		32.29	36.42	4.95		
	3rd	12:16	7.75	141.6	28.5	4.79	54.11							25.00y	no odor
	4th	12:20	7.79	141.9	28.0	4.85	24.09								
	5th	12:24	7.80	142.0	27.9	4.84	11.64							24.79	
	Sampling														
MW 8	Initial	10:24	6.64	493	30.6	2.21	24.17								
	1st	10:31	6.77	499	29.4	2.91	128.6				3.45-				
	2nd	10:34	6.82	501	28.9	2.97	139.2				13.45	11.00	1.79		
	3rd	10:36	6.85	506	28.6	3.02	74.06		2.45					9.25	Dup 1
	4th	10:39	6.87	511	28.4	3.04	34.99								
	5th	10:42	6.87	513	28.1	3.04	24.06							8.96	GRAB
	Sampling														
MW 9	Initial	11:14	6.34	386.2	26.2	3.64	11.69								
	1st	11:17	6.42	392.4	25.5	3.69	64.13				3.76-				
	2nd	11:20	6.48	395.6	25.1	3.71	89.61				13.76	13.16	2.14		
	3rd	11:23	6.51	396.2	24.8	3.73	34.06		0.60						
	4th	11:26	6.53	396.2	24.6	3.75	29.29								
	5th	11:30	6.54	396.3	24.4	3.76	13.67							10.72	
	Sampling														
MW 10	Initial	10:23	6.59	239.2	27.7	4.48	54.09								
	1st	10:30	6.66	237.4	27.1	4.60	129.7				3.42				
	2nd	10:32	6.69	244.9	26.5	4.67	141.2				17.42				
	3rd	10:35	6.73	247.1	26.1	4.71	100.6		0.62					2.15	
	4th	10:37	6.75	247.3	25.9	4.73	71.22					13.20			
	5th	10:39	6.76	247.3	25.7	4.72	61.09							10.75	no odor
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SW	DO SW	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, TA, MF  
 Sampling Date(s): 9/13/0  
 Sampling Case#: 2

Job Name: Burnetts  
 Job Number: 21-7669

Calibration Data for:  
 Calibration Successful:  Yes or No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity:  Yes  No  
 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):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
mw-11	Initial	12:14	6.69	493	30.3	4.05	36.00				3.65 - 13.65	12.65	2.09	11.09	no odor
	1st	12:16	7.74	511	29.1	4.12	106.9	0.8							
	2nd	12:19	7.82	564	28.7	4.20	113.2								
	3rd	12:23	7.85	564	28.4	4.23	86.62								
	4th	12:27	7.67	569	28.1	4.27	41.09								
	5th	12:31	7.90	570	27.4	4.26	35.35								
Sampling												10.47			
mw-13	Initial	12:34	5.99	137.2	26.7	2.97	20.29				3.62 - 13.62	12.72	2.07	10.509	no odor
	1st	12:37	6.17	145.4	26.2	3.09	106.7	0.90							
	2nd	12:40	6.21	149.2	25.9	3.12	121.3								
	3rd	12:43	6.24	151.6	25.2	3.15	64.06								
	4th	12:46	6.28	153.2	25.0	3.17	39.39								
	5th	12:50	6.29	153.0	24.8	3.18	25.66								
Sampling												10.36			
mw-14	Initial										3.72 - 13.72	-	-	-	
	1st							Denial Access to Property							
	2nd														
	3rd														
	4th														
	5th														
Sampling															
mw-14p	Initial										18.57 - 18.57	-	-	-	
	1st							Denial Access to Property							
	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



## Monitoring Well Purge And Sampling Data

Field Personnel: JC, TA, MF  
 Sampling Date(s): 9/30/11  
 Sampling Case#: 2

Job Name: Burnetts  
 Job Number: 21-7667

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)	434 (mg/l)	11.69 Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
mw-15	Initial	12:44	7.35	446.8	23.6	434	11.69								
	1st	12:46	7.39	459.2	23.1	4.46	64.09				3.64		2.08		
	2nd	12:49	7.44	466.5	22.7	4.51	104.9								
	3rd	12:52	7.46	469.8	22.4	4.53	64.64		0.83		13.64	12.81		10.75g	no odor
	4th	12:55	7.48	470.1	22.2	4.53	25.81								
	5th	12:57	7.46	471.1	22.6	4.44	14.1							10.44	
	Sampling														
mw-16	Initial	13:09	6.64	579.1	23.2	4.95	47.06								
	1st	13:11	6.71	492.0	22.6	4.21	124.7				1.85		1.63		
	2nd	13:13	6.76	502.1	22.1	4.27	146.78		5.325		11.85	10.00		8.25g	no odor
	3rd	13:15	6.80	505.6	21.8	4.29	100.9		4.25-10						
	4th	13:18	6.82	505.2	21.6	4.30	54.64								
	5th	13:20	6.82	503.0	21.5	4.31	45.69							8.15	
	Sampling														
mw-17	Initial	13:06	6.30	272.4	24.9	2.84	24.06								
	1st	13:09	6.37	276.9	24.7	2.95	26.11				3.71				
	2nd	13:13	6.41	274.2	24.5	2.98	124.2							1.77	
	3rd	13:16	6.45	275.6	24.2	3.01	54.56								
	4th	13:19	6.48	274.2	24.1	3.02	39.87		2.84		13.71	10.87		9.00g	no odor
	5th	13:21	6.51	274.5	24.0	3.04	24.12							8.85	
	Sampling														
mw-17D	Initial	13:15	7.21	96.7	26.0	3.06	47.06								
	1st	13:19	7.42	111.4	25.4	3.24	86.11								
	2nd	13:24	7.47	124.2	25.1	3.29	106.2		3.87		25.31			4.30	
	3rd	13:29	7.49	131.0	24.8	3.31	74.06								
	4th	13:33	7.55	132.9	24.6	3.34	64.94								
	5th	13:37	7.57	132.8	24.5	3.36	53.21								
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

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



## Monitoring Well Purge And Sampling Data

Field Personnel: SC, TA, MF  
 Sampling Date(s): 9/30  
 Sampling Case#: 2

Job Name: Burnetts  
 Job Number: 21-7660

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Yes / No  
 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):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
mw 18	Initial	13:31	6.75	272.5	23.7	4.89	24.77								
	1st	13:33	6.91	276.7	22.9	5.06	126.9								
	2nd	13:36	6.96	281.2	22.5	5.11	139.2								
	3rd	13:39	6.98	281.6	22.2	5.16	79.97								
	4th	13:42	6.71	281.2	21.9	5.18	34.69								
	5th	13:44	6.71	281.1	21.9	5.19	25.62								
	Sampling														
mw 19	Initial	14:03	6.64	271.2	24.2	3.90	11.16								
	1st	14:05	6.73	274.6	23.7	3.97	64.06								
	2nd	14:08	6.77	279.0	23.4	3.99	89.71								
	3rd	14:10	6.79	280.2	23.1	4.02	49.91								
	4th	14:13	6.81	280.4	22.9	4.05	26.06								
	5th	14:15	6.83	280.5	22.9	4.06	14.11								
	Sampling														
mw 19P	Initial	13:28	6.67	256.3	27.7	4.61	10.67								
	1st	13:30	7.01	271.2	27.1	4.69	111.2								
	2nd	13:31	7.21	277.0	26.9	4.71	115.6								
	3rd	13:34	7.25	279.6	26.4	4.73	86.90								
	4th	13:36	7.27	280.2	26.0	4.75	54.41								
	5th	13:39	7.29	281.0	25.8	4.76	22.20								
	Sampling														
mw 20	Initial	14:06	6.56	145.2	24.8	5.64	110.12								
	1st	14:09	7.03	149.0	27.0	5.69	139.2								
	2nd	14:11	7.09	152.6	26.4	5.74	155.6								
	3rd	14:13	7.13	157.0	26.1	5.76	48.42								
	4th	14:15	7.18	159.1	25.9	5.77	44.07								
	5th	14:17	7.20	160.2	25.6	5.75	44.04								
	Sampling														

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 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

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



Field Personnel: JC, TA, MF  
 Sampling Date(s): 9/30  
 Sampling Case#: 2

## Monitoring Well Purge And Sampling Data

Job Name: Burnetts  
 Job Number: 21-7667

Calibration Data for:  
 Calibration Successful: Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Yes / No  
 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):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
Sw1 X	Initial	Denied Access to property DNS													
	1st	pitch													
Sw2 ✓	2nd	13:37 - 32.49289, 80.97627 W													
Sw3 ✓	3rd	stream 13:45 - 32.49289, 80.974878													
Sw4 ✓	4th	14:27 - 32.491622, 80.973997													
	Sampling														
Sw5	Initial	Pond 14:35 - 32.49573 W, 80.97499 W													
WSA1 X	1st	DNS - Access Denied 11577 N													
WSA2 X	2nd	DNS													
WSA3 X	3rd	DNS - Access Denied 10754 N													
	4th	Jacob Smart Blvd													
	5th	Jacob Smart Blvd													
	Sampling														
WSA4 X	Initial	DNS													
TB ✓	1st	@ 8:00													
FB ✓	2nd														
WSA FB	3rd	14:40													
	4th														
	5th														
	Sampling														
WSA FB	Initial														
MECIGAC ✓	1st	14:41													
Pop 1 ✓	2nd	@ 10:42 MW-8													
Pop 2 ✓	3rd														
WSA Dup	4th	@ 10:26 MW-3													
	5th														
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

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

October 15, 2021

Robert Dunn  
SCDHEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2021. 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,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.  
Kyle Pudney, Midlands Environmental Consultants, Inc.  
Matt Wykel, SCDHEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: BURNETTES SELF SERVICE

Pace Project No.: 92564709

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### **Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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### SAMPLE ANALYTE COUNT

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92564709001	MW-2	EPA 8260D	SAS	20	PASI-C
92564709002	MW-2D	EPA 8260D	SAS	20	PASI-C
92564709003	MW-3	EPA 8260D	SAS	20	PASI-C
92564709004	MW-4	EPA 8260D	SAS	20	PASI-C
92564709005	MW-5	EPA 8260D	SAS	20	PASI-C
92564709006	MW-7	EPA 8260D	SAS	20	PASI-C
92564709007	MW-7D	EPA 8260D	SAS	20	PASI-C
92564709008	MW-8	EPA 8260D	CL	20	PASI-C
92564709009	MW-9	EPA 8260D	SAS	20	PASI-C
92564709010	MW-10	EPA 8260D	CL	20	PASI-C
92564709011	MW-11	EPA 8260D	SAS	20	PASI-C
92564709012	MW-13	EPA 8260D	SAS	20	PASI-C
92564709013	MW-15	EPA 8260D	SAS	20	PASI-C
92564709014	MW-16	EPA 8260D	SAS	20	PASI-C
92564709015	MW-17	EPA 8260D	SAS	20	PASI-C
92564709016	MW-17D	EPA 8260D	SAS	20	PASI-C
92564709017	MW-18	EPA 8260D	SAS	20	PASI-C
92564709018	MW-19	EPA 8260D	SAS	20	PASI-C
92564709019	MW-19D	EPA 8260D	SAS	20	PASI-C
92564709020	MW-20	EPA 8260D	CL	20	PASI-C
92564709021	SW-2	EPA 8260D	NSCQ	20	PASI-C
92564709022	SW-3	EPA 8260D	NSCQ	20	PASI-C
92564709023	SW-4	EPA 8260D	NSCQ	20	PASI-C
92564709024	SW-5	EPA 8260D	NSCQ	20	PASI-C
92564709025	DUP-2	EPA 8260D	CL	20	PASI-C
92564709026	FB	EPA 8260D	SAS	20	PASI-C
92564709027	TB	EPA 8260D	SAS	20	PASI-C
92564709028	DUP-1	EPA 8260D	CL	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-2	Lab ID: 92564709001	Collected: 09/30/21 10:09	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 20:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 20:24	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 20:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 20:24	624-95-3	
tert-Butyl Alcohol	<b>469</b>	ug/L	100	1		10/05/21 20:24	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 20:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 20:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 20:24	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 20:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 20:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 20:24	637-92-3	
Methyl-tert-butyl ether	<b>24.8</b>	ug/L	5.0	1		10/05/21 20:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 20:24	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 20:24	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 20:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 20:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 20:24	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		10/05/21 20:24	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		10/05/21 20:24	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/05/21 20:24	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-2D	Lab ID: 92564709002	Collected: 09/30/21 10:19	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 20:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 20:42	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 20:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 20:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 20:42	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 20:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 20:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 20:42	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 20:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 20:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 20:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 20:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 20:42	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 20:42	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 20:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 20:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 20:42	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/05/21 20:42	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		10/05/21 20:42	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/05/21 20:42	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-3	Lab ID: 92564709003	Collected: 09/30/21 10:26	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	10000	100		10/06/21 21:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	100		10/06/21 21:34	994-05-8	
Benzene	<b>1220</b>	ug/L	500	100		10/06/21 21:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	100		10/06/21 21:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	100		10/06/21 21:34	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	100		10/06/21 21:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	100		10/06/21 21:34	107-06-2	v2
Diisopropyl ether	ND	ug/L	500	100		10/06/21 21:34	108-20-3	
Ethanol	ND	ug/L	20000	100		10/06/21 21:34	64-17-5	
Ethylbenzene	<b>1770</b>	ug/L	500	100		10/06/21 21:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	100		10/06/21 21:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	100		10/06/21 21:34	1634-04-4	
Naphthalene	<b>938</b>	ug/L	500	100		10/06/21 21:34	91-20-3	
Toluene	<b>10400</b>	ug/L	500	100		10/06/21 21:34	108-88-3	M1
Xylene (Total)	<b>10200</b>	ug/L	500	100		10/06/21 21:34	1330-20-7	MS
m&p-Xylene	<b>6740</b>	ug/L	1000	100		10/06/21 21:34	179601-23-1	M1
o-Xylene	<b>3490</b>	ug/L	500	100		10/06/21 21:34	95-47-6	M1
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	91	%	70-130	100		10/06/21 21:34	460-00-4	
1,2-Dichloroethane-d4 (S)	81	%	70-130	100		10/06/21 21:34	17060-07-0	
Toluene-d8 (S)	97	%	70-130	100		10/06/21 21:34	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-4	Lab ID: 92564709004	Collected: 09/30/21 11:14	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 21:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 21:00	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 21:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 21:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 21:00	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 21:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 21:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 21:00	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 21:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 21:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 21:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 21:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 21:00	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 21:00	108-88-3	
Xylene (Total)	73.5	ug/L	5.0	1		10/05/21 21:00	1330-20-7	
m&p-Xylene	73.5	ug/L	10.0	1		10/05/21 21:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 21:00	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	106	%	70-130	1		10/05/21 21:00	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		10/05/21 21:00	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/05/21 21:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-5	Lab ID: 92564709005	Collected: 09/30/21 11:20	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 21:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 21:18	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 21:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 21:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 21:18	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 21:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 21:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 21:18	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 21:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 21:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 21:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 21:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 21:18	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 21:18	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 21:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 21:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 21:18	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-130	1		10/05/21 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		10/05/21 21:18	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/05/21 21:18	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-7	Lab ID: 92564709006	Collected: 09/30/21 11:46	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 21:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 21:36	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 21:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 21:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 21:36	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 21:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 21:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 21:36	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 21:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 21:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 21:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 21:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 21:36	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 21:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 21:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 21:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 21:36	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		10/05/21 21:36	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		10/05/21 21:36	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		10/05/21 21:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-7D	Lab ID: 92564709007	Collected: 09/30/21 12:24	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 21:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 21:54	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 21:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 21:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 21:54	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 21:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 21:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 21:54	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 21:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 21:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 21:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 21:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 21:54	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 21:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 21:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 21:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 21:54	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		10/05/21 21:54	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		10/05/21 21:54	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		10/05/21 21:54	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-8	Lab ID: 92564709008	Collected: 09/30/21 10:42	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	370	ug/L	100	1		10/06/21 14:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 14:03	994-05-8	
Benzene	23.8	ug/L	5.0	1		10/06/21 14:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 14:03	624-95-3	
tert-Butyl Alcohol	180	ug/L	100	1		10/06/21 14:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 14:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 14:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 14:03	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 14:03	64-17-5	
Ethylbenzene	78.9	ug/L	5.0	1		10/06/21 14:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 14:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 14:03	1634-04-4	
Naphthalene	26.1	ug/L	5.0	1		10/06/21 14:03	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 14:03	108-88-3	
Xylene (Total)	17.6	ug/L	5.0	1		10/06/21 14:03	1330-20-7	
m&p-Xylene	17.6	ug/L	10.0	1		10/06/21 14:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 14:03	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		10/06/21 14:03	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		10/06/21 14:03	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/06/21 14:03	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-9	Lab ID: 92564709009	Collected: 09/30/21 11:30	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	274	ug/L	100	1		10/05/21 22:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 22:12	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 22:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 22:12	624-95-3	
tert-Butyl Alcohol	212	ug/L	100	1		10/05/21 22:12	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 22:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 22:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 22:12	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 22:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 22:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 22:12	637-92-3	
Methyl-tert-butyl ether	21.2	ug/L	5.0	1		10/05/21 22:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 22:12	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 22:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 22:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 22:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 22:12	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		10/05/21 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		10/05/21 22:12	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/05/21 22:12	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-10	Lab ID: 92564709010	Collected: 09/30/21 10:39	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 14:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 14:21	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 14:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 14:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 14:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 14:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 14:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 14:21	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 14:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 14:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 14:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 14:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 14:21	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 14:21	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 14:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 14:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 14:21	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		10/06/21 14:21	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		10/06/21 14:21	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		10/06/21 14:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-11	Lab ID: 92564709011	Collected: 09/30/21 12:31	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 07:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 07:49	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 07:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 07:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 07:49	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 07:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 07:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 07:49	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 07:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 07:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 07:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 07:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 07:49	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 07:49	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 07:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 07:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 07:49	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		10/06/21 07:49	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		10/06/21 07:49	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/06/21 07:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-13	Lab ID: 92564709012	Collected: 09/30/21 12:50	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 22:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 22:30	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 22:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 22:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 22:30	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 22:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 22:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 22:30	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 22:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 22:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 22:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 22:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 22:30	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 22:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 22:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 22:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 22:30	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-130	1		10/05/21 22:30	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		10/05/21 22:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/05/21 22:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-15	Lab ID: 92564709013	Collected: 09/30/21 12:57	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 22:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 22:48	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 22:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 22:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 22:48	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 22:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 22:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 22:48	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 22:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 22:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 22:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 22:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 22:48	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 22:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 22:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 22:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 22:48	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		10/05/21 22:48	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130	1		10/05/21 22:48	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/05/21 22:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-16	Lab ID: 92564709014	Collected: 09/30/21 13:20	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 08:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 08:07	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 08:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 08:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 08:07	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 08:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 08:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 08:07	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 08:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 08:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 08:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 08:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 08:07	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 08:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 08:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 08:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 08:07	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/06/21 08:07	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		10/06/21 08:07	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/06/21 08:07	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-17	Lab ID: 92564709015	Collected: 09/30/21 13:21	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 08:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 08:26	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 08:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 08:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 08:26	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 08:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 08:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 08:26	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 08:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 08:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 08:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 08:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 08:26	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 08:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 08:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 08:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 08:26	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/06/21 08:26	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		10/06/21 08:26	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/06/21 08:26	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-17D	Lab ID: 92564709016	Collected: 09/30/21 13:37	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 08:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 08:44	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 08:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 08:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 08:44	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 08:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 08:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 08:44	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 08:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 08:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 08:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 08:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 08:44	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 08:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 08:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 08:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 08:44	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		10/06/21 08:44	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		10/06/21 08:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/06/21 08:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-18	Lab ID: 92564709017	Collected: 09/30/21 13:44	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 09:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 09:02	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 09:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 09:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 09:02	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 09:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 09:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 09:02	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 09:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 09:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 09:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 09:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 09:02	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 09:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 09:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 09:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 09:02	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		10/06/21 09:02	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		10/06/21 09:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/06/21 09:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-19	Lab ID: 92564709018	Collected: 09/30/21 14:15	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 09:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 09:20	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 09:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 09:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 09:20	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 09:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 09:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 09:20	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 09:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 09:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 09:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 09:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 09:20	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 09:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 09:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 09:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 09:20	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/06/21 09:20	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		10/06/21 09:20	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/06/21 09:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-19D	Lab ID: 92564709019	Collected: 09/30/21 13:39	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 09:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 09:38	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 09:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 09:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 09:38	75-65-0	IK
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 09:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 09:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 09:38	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 09:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 09:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 09:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 09:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 09:38	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 09:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 09:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 09:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 09:38	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/06/21 09:38	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		10/06/21 09:38	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/06/21 09:38	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: MW-20	Lab ID: 92564709020	Collected: 09/30/21 14:17	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		10/06/21 14:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 14:39	994-05-8	
Benzene	ND	ug/L	5.0	1		10/06/21 14:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 14:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/06/21 14:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 14:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 14:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 14:39	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 14:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/06/21 14:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 14:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 14:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/06/21 14:39	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 14:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/06/21 14:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/06/21 14:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 14:39	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		10/06/21 14:39	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		10/06/21 14:39	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		10/06/21 14:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: SW-2	Lab ID: 92564709021	Collected: 09/30/21 13:37	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/07/21 06:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/07/21 06:29	994-05-8	
Benzene	ND	ug/L	1.0	1		10/07/21 06:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/07/21 06:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/07/21 06:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/07/21 06:29	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	1		10/07/21 06:29	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		10/07/21 06:29	108-20-3	
Ethanol	ND	ug/L	200	1		10/07/21 06:29	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		10/07/21 06:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/07/21 06:29	87-68-3	v1
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/07/21 06:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/07/21 06:29	91-20-3	
Toluene	ND	ug/L	1.0	1		10/07/21 06:29	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		10/07/21 06:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/07/21 06:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/07/21 06:29	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		10/07/21 06:29	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		10/07/21 06:29	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/07/21 06:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: SW-3	Lab ID: 92564709022	Collected: 09/30/21 13:45	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/07/21 06:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/07/21 06:47	994-05-8	
Benzene	ND	ug/L	1.0	1		10/07/21 06:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/07/21 06:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/07/21 06:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/07/21 06:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/07/21 06:47	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		10/07/21 06:47	108-20-3	
Ethanol	ND	ug/L	200	1		10/07/21 06:47	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		10/07/21 06:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/07/21 06:47	87-68-3	v1
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/07/21 06:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/07/21 06:47	91-20-3	
Toluene	ND	ug/L	1.0	1		10/07/21 06:47	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		10/07/21 06:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/07/21 06:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/07/21 06:47	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		10/07/21 06:47	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		10/07/21 06:47	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/07/21 06:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: SW-4	Lab ID: 92564709023	Collected: 09/30/21 14:27	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/07/21 07:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/07/21 07:05	994-05-8	
Benzene	ND	ug/L	1.0	1		10/07/21 07:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/07/21 07:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/07/21 07:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/07/21 07:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/07/21 07:05	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		10/07/21 07:05	108-20-3	
Ethanol	ND	ug/L	200	1		10/07/21 07:05	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		10/07/21 07:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/07/21 07:05	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/07/21 07:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/07/21 07:05	91-20-3	
Toluene	ND	ug/L	1.0	1		10/07/21 07:05	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		10/07/21 07:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/07/21 07:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/07/21 07:05	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/07/21 07:05	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		10/07/21 07:05	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/07/21 07:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: SW-5	Lab ID: 92564709024	Collected: 09/30/21 14:35	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/07/21 07:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/07/21 07:23	994-05-8	
Benzene	ND	ug/L	1.0	1		10/07/21 07:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/07/21 07:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/07/21 07:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/07/21 07:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/07/21 07:23	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	1		10/07/21 07:23	108-20-3	
Ethanol	ND	ug/L	200	1		10/07/21 07:23	64-17-5	
Ethylbenzene	ND	ug/L	1.0	1		10/07/21 07:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/07/21 07:23	87-68-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/07/21 07:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/07/21 07:23	91-20-3	
Toluene	ND	ug/L	1.0	1		10/07/21 07:23	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		10/07/21 07:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/07/21 07:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/07/21 07:23	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/07/21 07:23	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		10/07/21 07:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/07/21 07:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: DUP-2	Lab ID: 92564709025	Collected: 09/30/21 00:00	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	426	ug/L	100	1		10/06/21 19:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/06/21 19:46	994-05-8	
Benzene	25.8	ug/L	5.0	1		10/06/21 19:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/06/21 19:46	624-95-3	
tert-Butyl Alcohol	208	ug/L	100	1		10/06/21 19:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/06/21 19:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/21 19:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/06/21 19:46	108-20-3	
Ethanol	ND	ug/L	200	1		10/06/21 19:46	64-17-5	
Ethylbenzene	83.7	ug/L	5.0	1		10/06/21 19:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/06/21 19:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/06/21 19:46	1634-04-4	
Naphthalene	29.9	ug/L	5.0	1		10/06/21 19:46	91-20-3	
Toluene	ND	ug/L	5.0	1		10/06/21 19:46	108-88-3	
Xylene (Total)	19.4	ug/L	5.0	1		10/06/21 19:46	1330-20-7	
m&p-Xylene	19.4	ug/L	10.0	1		10/06/21 19:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/06/21 19:46	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		10/06/21 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/06/21 19:46	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		10/06/21 19:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: FB	Lab ID: 92564709026	Collected: 09/30/21 14:40	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 17:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 17:24	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 17:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 17:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 17:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 17:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 17:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 17:24	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 17:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 17:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 17:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 17:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 17:24	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 17:24	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 17:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 17:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 17:24	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	104	%	70-130	1		10/05/21 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		10/05/21 17:24	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/05/21 17:24	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: TB	Lab ID: 92564709027	Collected: 09/30/21 08:00	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/05/21 17:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/05/21 17:06	994-05-8	
Benzene	ND	ug/L	5.0	1		10/05/21 17:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/05/21 17:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/05/21 17:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/05/21 17:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/21 17:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		10/05/21 17:06	108-20-3	
Ethanol	ND	ug/L	200	1		10/05/21 17:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		10/05/21 17:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/05/21 17:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		10/05/21 17:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/05/21 17:06	91-20-3	
Toluene	ND	ug/L	5.0	1		10/05/21 17:06	108-88-3	
Xylene (Total)	ND	ug/L	5.0	1		10/05/21 17:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		10/05/21 17:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/05/21 17:06	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102	%	70-130	1		10/05/21 17:06	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		10/05/21 17:06	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/05/21 17:06	2037-26-5	

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### ANALYTICAL RESULTS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Sample: DUP-1	Lab ID: 92564709028	Collected: 09/30/21 00:00	Received: 10/01/21 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	10000	100		10/06/21 19:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	100		10/06/21 19:28	994-05-8	
Benzene	<b>1470</b>	ug/L	500	100		10/06/21 19:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	100		10/06/21 19:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	100		10/06/21 19:28	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	100		10/06/21 19:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	100		10/06/21 19:28	107-06-2	
Diisopropyl ether	ND	ug/L	500	100		10/06/21 19:28	108-20-3	
Ethanol	ND	ug/L	20000	100		10/06/21 19:28	64-17-5	
Ethylbenzene	<b>1940</b>	ug/L	500	100		10/06/21 19:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	100		10/06/21 19:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	100		10/06/21 19:28	1634-04-4	
Naphthalene	<b>959</b>	ug/L	500	100		10/06/21 19:28	91-20-3	
Toluene	<b>12300</b>	ug/L	500	100		10/06/21 19:28	108-88-3	
Xylene (Total)	<b>11600</b>	ug/L	500	100		10/06/21 19:28	1330-20-7	
m&p-Xylene	<b>7760</b>	ug/L	1000	100		10/06/21 19:28	179601-23-1	
o-Xylene	<b>3820</b>	ug/L	500	100		10/06/21 19:28	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	100		10/06/21 19:28	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	100		10/06/21 19:28	17060-07-0	
Toluene-d8 (S)	98	%	70-130	100		10/06/21 19:28	2037-26-5	

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

QC Batch: 650956 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92564709021, 92564709022, 92564709023, 92564709024

METHOD BLANK: 3413774 Matrix: Water  
Associated Lab Samples: 92564709021, 92564709022, 92564709023, 92564709024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	10/07/21 02:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/07/21 02:15	
Benzene	ug/L	ND	1.0	10/07/21 02:15	
Diisopropyl ether	ug/L	ND	1.0	10/07/21 02:15	
Ethanol	ug/L	ND	200	10/07/21 02:15	
Ethylbenzene	ug/L	ND	1.0	10/07/21 02:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/07/21 02:15	
m&p-Xylene	ug/L	ND	2.0	10/07/21 02:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/07/21 02:15	
Naphthalene	ug/L	ND	1.0	10/07/21 02:15	
o-Xylene	ug/L	ND	1.0	10/07/21 02:15	
tert-Amyl Alcohol	ug/L	ND	100	10/07/21 02:15	
tert-Amylmethyl ether	ug/L	ND	10.0	10/07/21 02:15	
tert-Butyl Alcohol	ug/L	ND	100	10/07/21 02:15	
tert-Butyl Formate	ug/L	ND	50.0	10/07/21 02:15	
Toluene	ug/L	ND	1.0	10/07/21 02:15	
Xylene (Total)	ug/L	ND	1.0	10/07/21 02:15	
1,2-Dichloroethane-d4 (S)	%	92	70-130	10/07/21 02:15	
4-Bromofluorobenzene (S)	%	97	70-130	10/07/21 02:15	
Toluene-d8 (S)	%	100	70-130	10/07/21 02:15	

LABORATORY CONTROL SAMPLE: 3413775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.6	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1140	114	70-130	
Benzene	ug/L	50	57.1	114	70-130	
Diisopropyl ether	ug/L	50	52.5	105	70-130	
Ethanol	ug/L	2000	1970	99	70-130	
Ethylbenzene	ug/L	50	58.2	116	70-130	
Hexachloro-1,3-butadiene	ug/L	50	60.1	120	70-130	
m&p-Xylene	ug/L	100	116	116	70-130	
Methyl-tert-butyl ether	ug/L	50	53.2	106	70-130	
Naphthalene	ug/L	50	61.2	122	70-130	
o-Xylene	ug/L	50	58.1	116	70-130	
tert-Amyl Alcohol	ug/L	1000	1050	105	70-130	
tert-Amylmethyl ether	ug/L	100	110	110	70-130	
tert-Butyl Alcohol	ug/L	500	502	100	70-130	
tert-Butyl Formate	ug/L	400	425	106	70-130	

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

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

LABORATORY CONTROL SAMPLE: 3413775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	56.1	112	70-130	
Xylene (Total)	ug/L	150	174	116	70-130	
1,2-Dichloroethane-d4 (S)	%			85	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 3413776

Parameter	Units	92564709021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.3	102	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	416	104	39-157	
Benzene	ug/L	ND	20	24.2	121	70-151	
Diisopropyl ether	ug/L	ND	20	20.3	101	63-144	
Ethanol	ug/L	ND	800	782	98	39-176	
Ethylbenzene	ug/L	ND	20	24.8	124	66-153	
Hexachloro-1,3-butadiene	ug/L	ND	20	24.3	121	65-149 v1	
m&p-Xylene	ug/L	ND	40	49.6	124	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	20.2	101	54-156	
Naphthalene	ug/L	ND	20	24.0	120	61-148	
o-Xylene	ug/L	ND	20	24.7	124	70-148	
tert-Amyl Alcohol	ug/L	ND	400	389	97	54-153	
tert-Amylmethyl ether	ug/L	ND	40	43.3	108	69-139	
tert-Butyl Alcohol	ug/L	ND	200	280	140	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	0	10-170 P5	
Toluene	ug/L	ND	20	23.8	119	59-148	
Xylene (Total)	ug/L	ND	60	74.3	124	63-158	
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 3416814

Parameter	Units	92564709022 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		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		v1
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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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE

Pace Project No.: 92564709

SAMPLE DUPLICATE: 3416814

Parameter	Units	92564709022 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)	%	94	93		
4-Bromofluorobenzene (S)	%	99	97		
Toluene-d8 (S)	%	102	99		

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

QC Batch:	650911	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92564709001, 92564709002, 92564709004, 92564709005, 92564709006, 92564709007, 92564709009, 92564709012, 92564709013, 92564709026, 92564709027

METHOD BLANK: 3413508 Matrix: Water  
Associated Lab Samples: 92564709001, 92564709002, 92564709004, 92564709005, 92564709006, 92564709007, 92564709009, 92564709012, 92564709013, 92564709026, 92564709027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/05/21 16:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/05/21 16:48	
Benzene	ug/L	ND	5.0	10/05/21 16:48	
Diisopropyl ether	ug/L	ND	5.0	10/05/21 16:48	
Ethanol	ug/L	ND	200	10/05/21 16:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/05/21 16:48	
Ethylbenzene	ug/L	ND	5.0	10/05/21 16:48	
m&p-Xylene	ug/L	ND	10.0	10/05/21 16:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/05/21 16:48	
Naphthalene	ug/L	ND	5.0	10/05/21 16:48	
o-Xylene	ug/L	ND	5.0	10/05/21 16:48	
tert-Amyl Alcohol	ug/L	ND	100	10/05/21 16:48	
tert-Amylmethyl ether	ug/L	ND	10.0	10/05/21 16:48	
tert-Butyl Alcohol	ug/L	ND	100	10/05/21 16:48	IK
tert-Butyl Formate	ug/L	ND	50.0	10/05/21 16:48	
Toluene	ug/L	ND	5.0	10/05/21 16:48	
Xylene (Total)	ug/L	ND	5.0	10/05/21 16:48	
1,2-Dichloroethane-d4 (S)	%	88	70-130	10/05/21 16:48	
4-Bromofluorobenzene (S)	%	105	70-130	10/05/21 16:48	
Toluene-d8 (S)	%	101	70-130	10/05/21 16:48	

LABORATORY CONTROL SAMPLE: 3413509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Benzene	ug/L	50	50.8	102	70-130	
Diisopropyl ether	ug/L	50	48.6	97	70-130	
Ethanol	ug/L	2000	1950	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	51.3	103	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	49.8	100	70-130	
Naphthalene	ug/L	50	55.2	110	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1010	101	70-130	
tert-Amylmethyl ether	ug/L	100	100	100	70-130	

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

LABORATORY CONTROL SAMPLE: 3413509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	444	89	70-130	IK
tert-Butyl Formate	ug/L	400	407	102	70-130	
Toluene	ug/L	50	51.0	102	70-130	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413510 3413511

Parameter	Units	92564709013		3413510		3413511		% Rec	% Rec	% Rec Limits	RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1,2-Dichloroethane	ug/L	ND	20	20	14.3	15.2	72	76	70-137	6	v3	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	328	400	82	100	39-157	20		
Benzene	ug/L	ND	20	20	18.0	19.3	90	96	70-151	7		
Diisopropyl ether	ug/L	ND	20	20	14.7	15.5	73	78	63-144	6		
Ethanol	ug/L	ND	800	800	590	586	74	73	39-176	1		
Ethyl-tert-butyl ether	ug/L	ND	40	40	30.7	32.6	77	81	66-137	6		
Ethylbenzene	ug/L	ND	20	20	20.5	22.0	103	110	66-153	7		
m&p-Xylene	ug/L	ND	40	40	40.5	44.3	101	111	69-152	9		
Methyl-tert-butyl ether	ug/L	ND	20	20	15.5	16.1	77	81	54-156	4		
Naphthalene	ug/L	ND	20	20	20.3	21.5	102	108	61-148	6		
o-Xylene	ug/L	ND	20	20	20.6	22.4	103	112	70-148	8		
tert-Amyl Alcohol	ug/L	ND	400	400	339	358	85	90	54-153	6		
tert-Amylmethyl ether	ug/L	ND	40	40	36.7	38.2	92	95	69-139	4		
tert-Butyl Alcohol	ug/L	ND	200	200	168	190	84	95	43-188	12		
tert-Butyl Formate	ug/L	ND	160	160	78.4	69.3	49	43	10-170	12		
Toluene	ug/L	ND	20	20	18.2	19.2	91	96	59-148	5		
Xylene (Total)	ug/L	ND	60	60	61.2	66.7	102	111	63-158	9		
1,2-Dichloroethane-d4 (S)	%						86	83	70-130			
4-Bromofluorobenzene (S)	%						92	94	70-130			
Toluene-d8 (S)	%						94	93	70-130			

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

QC Batch: 650913 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92564709011, 92564709014, 92564709015, 92564709016, 92564709017, 92564709018, 92564709019

METHOD BLANK: 3413516 Matrix: Water  
Associated Lab Samples: 92564709011, 92564709014, 92564709015, 92564709016, 92564709017, 92564709018, 92564709019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/06/21 01:30	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/06/21 01:30	
Benzene	ug/L	ND	5.0	10/06/21 01:30	
Diisopropyl ether	ug/L	ND	5.0	10/06/21 01:30	
Ethanol	ug/L	ND	200	10/06/21 01:30	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/06/21 01:30	
Ethylbenzene	ug/L	ND	5.0	10/06/21 01:30	
m&p-Xylene	ug/L	ND	10.0	10/06/21 01:30	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/06/21 01:30	
Naphthalene	ug/L	ND	5.0	10/06/21 01:30	
o-Xylene	ug/L	ND	5.0	10/06/21 01:30	
tert-Amyl Alcohol	ug/L	ND	100	10/06/21 01:30	
tert-Amylmethyl ether	ug/L	ND	10.0	10/06/21 01:30	
tert-Butyl Alcohol	ug/L	ND	100	10/06/21 01:30	IK
tert-Butyl Formate	ug/L	ND	50.0	10/06/21 01:30	
Toluene	ug/L	ND	5.0	10/06/21 01:30	
Xylene (Total)	ug/L	ND	5.0	10/06/21 01:30	
1,2-Dichloroethane-d4 (S)	%	85	70-130	10/06/21 01:30	
4-Bromofluorobenzene (S)	%	98	70-130	10/06/21 01:30	
Toluene-d8 (S)	%	102	70-130	10/06/21 01:30	

LABORATORY CONTROL SAMPLE: 3413517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.8	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	48.0	96	70-130	
Diisopropyl ether	ug/L	50	41.8	84	70-130	
Ethanol	ug/L	2000	1760	88	70-130	
Ethyl-tert-butyl ether	ug/L	100	90.1	90	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	99.1	99	70-130	
Methyl-tert-butyl ether	ug/L	50	45.2	90	70-130	
Naphthalene	ug/L	50	55.6	111	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
tert-Amyl Alcohol	ug/L	1000	970	97	70-130	
tert-Amylmethyl ether	ug/L	100	93.6	94	70-130	
tert-Butyl Alcohol	ug/L	500	411	82	70-130	IK
tert-Butyl Formate	ug/L	400	358	89	70-130	

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

LABORATORY CONTROL SAMPLE: 3413517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	46.0	92	70-130	
Xylene (Total)	ug/L	150	149	100	70-130	
1,2-Dichloroethane-d4 (S)	%			118	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413518 3413519

Parameter	Units	92564709011		3413518		3413519		% Rec	% Rec	% Rec Limits	RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1,2-Dichloroethane	ug/L	ND	20	20	16.7	15.7	84	78	70-137	6	v3	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	438	437	109	109	39-157	0		
Benzene	ug/L	ND	20	20	20.0	20.5	100	103	70-151	2		
Diisopropyl ether	ug/L	ND	20	20	16.6	16.5	83	83	63-144	0		
Ethanol	ug/L	ND	800	800	670	674	84	84	39-176	1		
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.1	34.6	88	86	66-137	2		
Ethylbenzene	ug/L	ND	20	20	23.6	23.6	118	118	66-153	0		
m&p-Xylene	ug/L	ND	40	40	46.6	45.1	117	113	69-152	3		
Methyl-tert-butyl ether	ug/L	ND	20	20	16.4	16.7	82	83	54-156	1		
Naphthalene	ug/L	ND	20	20	24.1	21.8	121	109	61-148	10		
o-Xylene	ug/L	ND	20	20	23.7	23.9	118	120	70-148	1		
tert-Amyl Alcohol	ug/L	ND	400	400	396	387	99	97	54-153	2		
tert-Amylmethyl ether	ug/L	ND	40	40	39.9	40.6	100	102	69-139	2		
tert-Butyl Alcohol	ug/L	ND	200	200	225	224	112	112	43-188	0		
tert-Butyl Formate	ug/L	ND	160	160	56.4	48.9J	35	31	10-170			
Toluene	ug/L	ND	20	20	19.9	20.3	100	101	59-148	2		
Xylene (Total)	ug/L	ND	60	60	70.3	69.0	117	115	63-158	2		
1,2-Dichloroethane-d4 (S)	%						87	85	70-130			
4-Bromofluorobenzene (S)	%						93	91	70-130			
Toluene-d8 (S)	%						91	96	70-130			

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

QC Batch: 651165 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92564709008, 92564709010, 92564709020, 92564709025, 92564709028

METHOD BLANK: 3414941 Matrix: Water  
Associated Lab Samples: 92564709008, 92564709010, 92564709020, 92564709025, 92564709028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/06/21 13:45	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/06/21 13:45	
Benzene	ug/L	ND	5.0	10/06/21 13:45	
Diisopropyl ether	ug/L	ND	5.0	10/06/21 13:45	
Ethanol	ug/L	ND	200	10/06/21 13:45	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/06/21 13:45	
Ethylbenzene	ug/L	ND	5.0	10/06/21 13:45	
m&p-Xylene	ug/L	ND	10.0	10/06/21 13:45	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/06/21 13:45	
Naphthalene	ug/L	ND	5.0	10/06/21 13:45	
o-Xylene	ug/L	ND	5.0	10/06/21 13:45	
tert-Amyl Alcohol	ug/L	ND	100	10/06/21 13:45	
tert-Amylmethyl ether	ug/L	ND	10.0	10/06/21 13:45	
tert-Butyl Alcohol	ug/L	ND	100	10/06/21 13:45	
tert-Butyl Formate	ug/L	ND	50.0	10/06/21 13:45	
Toluene	ug/L	ND	5.0	10/06/21 13:45	
Xylene (Total)	ug/L	ND	5.0	10/06/21 13:45	
1,2-Dichloroethane-d4 (S)	%	90	70-130	10/06/21 13:45	
4-Bromofluorobenzene (S)	%	96	70-130	10/06/21 13:45	
Toluene-d8 (S)	%	98	70-130	10/06/21 13:45	

LABORATORY CONTROL SAMPLE: 3414942

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	1060	106	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Diisopropyl ether	ug/L	50	43.9	88	70-130	
Ethanol	ug/L	2000	1790	89	70-130	
Ethyl-tert-butyl ether	ug/L	100	90.8	91	70-130	
Ethylbenzene	ug/L	50	50.3	101	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	45.1	90	70-130	
Naphthalene	ug/L	50	53.0	106	70-130	
o-Xylene	ug/L	50	51.9	104	70-130	
tert-Amyl Alcohol	ug/L	1000	987	99	70-130	
tert-Amylmethyl ether	ug/L	100	95.1	95	70-130	
tert-Butyl Alcohol	ug/L	500	468	94	70-130	
tert-Butyl Formate	ug/L	400	370	93	70-130	

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

LABORATORY CONTROL SAMPLE: 3414942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.9	98	70-130	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3414943 3414944

Parameter	92564709028		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec					
1,2-Dichloroethane	ug/L	ND	2000	2000	2080	1820	104	91	70-137	13			
3,3-Dimethyl-1-Butanol	ug/L	ND	40000	40000	42100	39600	105	99	39-157	6			
Benzene	ug/L	1470	2000	2000	3610	3550	107	104	70-151	2			
Diisopropyl ether	ug/L	ND	2000	2000	1840	1660	92	83	63-144	10			
Ethanol	ug/L	ND	80000	80000	80600	74200	101	93	39-176	8			
Ethyl-tert-butyl ether	ug/L	ND	4000	4000	4100	3420	102	86	66-137	18			
Ethylbenzene	ug/L	1940	2000	2000	4170	4020	112	104	66-153	4			
m&p-Xylene	ug/L	7760	4000	4000	12400	12100	115	108	69-152	2			
Methyl-tert-butyl ether	ug/L	ND	2000	2000	1910	1690	96	84	54-156	13			
Naphthalene	ug/L	959	2000	2000	3280	3100	116	107	61-148	6			
o-Xylene	ug/L	3820	2000	2000	6160	6160	117	117	70-148	0			
tert-Amyl Alcohol	ug/L	ND	40000	40000	40200	38300	100	96	54-153	5			
tert-Amylmethyl ether	ug/L	ND	4000	4000	4220	3900	105	97	69-139	8			
tert-Butyl Alcohol	ug/L	ND	20000	20000	19000	16900	95	84	43-188	12			
tert-Butyl Formate	ug/L	ND	16000	16000	16400	15000	102	94	10-170	9			
Toluene	ug/L	12300	2000	2000	13900	14100	79	90	59-148	1			
Xylene (Total)	ug/L	11600	6000	6000	18500	18200	116	111	63-158	2			
1,2-Dichloroethane-d4 (S)	%						101	97	70-130				
4-Bromofluorobenzene (S)	%						97	100	70-130				
Toluene-d8 (S)	%						94	95	70-130				

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### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

QC Batch: 651169 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92564709003

METHOD BLANK: 3414976 Matrix: Water  
Associated Lab Samples: 92564709003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/06/21 13:06	v2
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/06/21 13:06	
Benzene	ug/L	ND	5.0	10/06/21 13:06	
Diisopropyl ether	ug/L	ND	5.0	10/06/21 13:06	
Ethanol	ug/L	ND	200	10/06/21 13:06	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/06/21 13:06	
Ethylbenzene	ug/L	ND	5.0	10/06/21 13:06	
m&p-Xylene	ug/L	ND	10.0	10/06/21 13:06	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/06/21 13:06	
Naphthalene	ug/L	ND	5.0	10/06/21 13:06	
o-Xylene	ug/L	ND	5.0	10/06/21 13:06	
tert-Amyl Alcohol	ug/L	ND	100	10/06/21 13:06	
tert-Amylmethyl ether	ug/L	ND	10.0	10/06/21 13:06	
tert-Butyl Alcohol	ug/L	ND	100	10/06/21 13:06	
tert-Butyl Formate	ug/L	ND	50.0	10/06/21 13:06	
Toluene	ug/L	ND	5.0	10/06/21 13:06	
Xylene (Total)	ug/L	ND	5.0	10/06/21 13:06	
1,2-Dichloroethane-d4 (S)	%	87	70-130	10/06/21 13:06	
4-Bromofluorobenzene (S)	%	93	70-130	10/06/21 13:06	
Toluene-d8 (S)	%	95	70-130	10/06/21 13:06	

LABORATORY CONTROL SAMPLE: 3414977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	39.3	79	70-130	v3
3,3-Dimethyl-1-Butanol	ug/L	1000	1160	116	70-130	
Benzene	ug/L	50	46.7	93	70-130	
Diisopropyl ether	ug/L	50	40.9	82	70-130	
Ethanol	ug/L	2000	1610	81	70-130	
Ethyl-tert-butyl ether	ug/L	100	85.3	85	70-130	
Ethylbenzene	ug/L	50	54.6	109	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	42.0	84	70-130	
Naphthalene	ug/L	50	60.7	121	70-130	
o-Xylene	ug/L	50	56.9	114	70-130	
tert-Amyl Alcohol	ug/L	1000	955	96	70-130	
tert-Amylmethyl ether	ug/L	100	98.7	99	70-130	
tert-Butyl Alcohol	ug/L	500	413	83	70-130	
tert-Butyl Formate	ug/L	400	331	83	70-130	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

LABORATORY CONTROL SAMPLE: 3414977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	47.1	94	70-130	
Xylene (Total)	ug/L	150	166	111	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			93	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3414978 3414979

Parameter	92564709003		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec					
1,2-Dichloroethane	ug/L	ND	2000	2000	1620	1660	81	83	70-137	3	v3		
3,3-Dimethyl-1-Butanol	ug/L	ND	40000	40000	43900	46100	110	115	39-157	5			
Benzene	ug/L	1220	2000	2000	3350	3660	107	122	70-151	9			
Diisopropyl ether	ug/L	ND	2000	2000	1710	1800	85	90	63-144	5			
Ethanol	ug/L	ND	80000	80000	65500	67600	82	85	39-176	3			
Ethyl-tert-butyl ether	ug/L	ND	4000	4000	3590	3720	90	93	66-137	3			
Ethylbenzene	ug/L	1770	2000	2000	4200	4690	121	146	66-153	11			
m&p-Xylene	ug/L	6740	4000	4000	11400	13400	118	165	69-152	15	M1		
Methyl-tert-butyl ether	ug/L	ND	2000	2000	1790	1840	90	92	54-156	3			
Naphthalene	ug/L	938	2000	2000	3310	3700	118	138	61-148	11			
o-Xylene	ug/L	3490	2000	2000	6030	6850	127	168	70-148	13	M1		
tert-Amyl Alcohol	ug/L	ND	40000	40000	40700	41700	102	104	54-153	3			
tert-Amylmethyl ether	ug/L	ND	4000	4000	4400	4410	110	110	69-139	0			
tert-Butyl Alcohol	ug/L	ND	20000	20000	17000	17900	85	90	43-188	5			
tert-Butyl Formate	ug/L	ND	16000	16000	13200	13700	83	85	10-170	3			
Toluene	ug/L	10400	2000	2000	11900	14900	77	228	59-148	23	M1		
Xylene (Total)	ug/L	10200	6000	6000	17500	20200	121	166	63-158	15	MS		
1,2-Dichloroethane-d4 (S)	%						80	81	70-130				
4-Bromofluorobenzene (S)	%						93	90	70-130				
Toluene-d8 (S)	%						92	95	70-130				

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BURNETTES SELF SERVICE  
Pace Project No.: 92564709

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92564709021	SW-2	EPA 8260D	650956		
92564709022	SW-3	EPA 8260D	650956		
92564709023	SW-4	EPA 8260D	650956		
92564709024	SW-5	EPA 8260D	650956		
92564709001	MW-2	EPA 8260D	650911		
92564709002	MW-2D	EPA 8260D	650911		
92564709003	MW-3	EPA 8260D	651169		
92564709004	MW-4	EPA 8260D	650911		
92564709005	MW-5	EPA 8260D	650911		
92564709006	MW-7	EPA 8260D	650911		
92564709007	MW-7D	EPA 8260D	650911		
92564709008	MW-8	EPA 8260D	651165		
92564709009	MW-9	EPA 8260D	650911		
92564709010	MW-10	EPA 8260D	651165		
92564709011	MW-11	EPA 8260D	650913		
92564709012	MW-13	EPA 8260D	650911		
92564709013	MW-15	EPA 8260D	650911		
92564709014	MW-16	EPA 8260D	650913		
92564709015	MW-17	EPA 8260D	650913		
92564709016	MW-17D	EPA 8260D	650913		
92564709017	MW-18	EPA 8260D	650913		
92564709018	MW-19	EPA 8260D	650913		
92564709019	MW-19D	EPA 8260D	650913		
92564709020	MW-20	EPA 8260D	651165		
92564709025	DUP-2	EPA 8260D	651165		
92564709026	FB	EPA 8260D	650911		
92564709027	TB	EPA 8260D	650911		
92564709028	DUP-1	EPA 8260D	651165		

### REPORT OF LABORATORY ANALYSIS

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**PACE Analytical**  
**CHAIN-OF-CUSTODY Analytical Request Document**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
 Billing information:

Company: **SCDHEC**  
 Address: **2600 Bullst**  
 Report To: **R Dunn**  
 Copy To:  
 Customer Project Name/Number: **Bonnettes self service**  
 Phone: **21-7660**  
 Email:  
 Collected By (print): **Joselyn C**  
 Collected By (signature):  
 Sample Disposal:  
 [ ] Dispose as appropriate [ ] Return  
 [ ] Archive [ ] Hold:  
 \* 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 CI	# of Ctns	Time Zone Collected:	
									[ ] PT [ ] MT [ ] CT [ ] ET	[ ] PT [ ] MT [ ] CT [ ] ET
MW-1	GW	6	7/30/21	10:09				6	X	
MW-2	GW	6		10:19				1		
MW-2D				10:26				1		
MW-3				11:14				1		
MW-5				11:20				1		
MW-6								6	X	
MW-7	GW	6	7/30/21	11:46				1		
MW-7D				12:24				1		
MW-8				10:42				1		

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: **Wet** Blue Dry None  
 Packing Material Used: **h.b.**  
 Raddchem sample(s) screened (<500 cpm): Y N **NA**  
 Date/Time: 10/1/21 9:15  
 Received by/Company: (Signature)  
 Date/Time: 10/1/21 16:00  
 Received by/Company: (Signature)  
 Date/Time: 10/14/21 16:00  
 Received by/Company: (Signature)  
 Date/Time: 10/14/21 15:00  
 Mark - vatschee secure area 10/14/21 15:00 Mark - vatschee secure area

LP  
**WO#: 92564709**  
  
 CL  
**92564709**

33  
 \*\* 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

Lab Profile/Line:	Y	N	NA
Custody Seals Present/Intact			
Custody Signatures Present			
Collector Signatures Present			
Bottles Intact			
Correct Bottles			
Sufficient Volume			
Samples Received on Ice			
VOA - Headspace Acceptable			
USDA Regulated Soils			
Samples in Holding Time			
Residual Chlorine Present			
Cl Strips:			
Sample pH Acceptable			
pH Strips:			
Sulfide present			
Lead Acetate Strips:			

LAB USE ONLY:  
 Lab Sample # / Comments:  
**12564709**

Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide present Y N NA  
 Lead Acetate Strips: Y N NA

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: **927164**  
 Cooler 1 Temp Upon Receipt: **24** oC  
 Cooler 1 Therm Corr. Factor: **69** oC  
 Cooler 1 Corrected Temp: **27** oC  
 Comments:

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: **927164**  
 Cooler 1 Temp Upon Receipt: **24** oC  
 Cooler 1 Therm Corr. Factor: **69** oC  
 Cooler 1 Corrected Temp: **27** oC  
 Comments:

Lab Tracking #: **2546411**  
 Samples received via: FEDEX UPS Client Courier  
 Date/Time: **10/1/21 09:15**  
 Date/Time: **10/1/21 16:00**  
 Date/Time: **10/14/21 14:00**  
 Table #: **MTJL LAB USE ONLY**  
 Acctnum:  
 Template:  
 Prelogin:  
 PM:  
 PB:

der Number or  
**ILY**

33  
 \*\* 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



# CHAIN-OF-CUSTODY Analytical Request Document

LAB U **WO# : 92564709** Number or  
 PM: LNW Due Date: 10/08/21  
 CLIENT: 92-SCDHEC

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
 Billing Information:

Company: SCDHEC  
 Address: 2600 Gull St  
 Report To: T Dunn  
 Copy To:  
 Customer Project Name/Number: Burnettes soft service

Email To: DUNA.R@DHEC.SC.GOV  
 Site Collection Info/Address: 11577 North Jacobs Marsh Blvd  
 State: County/City: SC / Moultrie

Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Compliance Monitoring? [ ] Yes [ ] No  
 DW PWS ID #: 21-7600  
 DW Location Code:  
 Immediately Packed on Ice: [ ] Yes [ ] No  
 Field Filtered (if applicable): [ ] Yes [ ] No  
 Analysis:

Turnaround Date Required:  
 Rush: [ ] Same Day [ ] Next Day  
 [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 (Expedite Charges Apply)

\* Matrix Codes (insert in Matrix box below): Drinking 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)		Res Cl	# of Ctns
			Date	Time		
MM-9	GW	G	7/26/21	11:30		6
MM-10				10:39		6
MM-11				12:31		6
MM-13				12:50		6
MM-14						
MM-15	GW	G	7/30/21	12:57		6
MM-16				13:20		6
MM-17				13:21		6
MM-17D				13:37		6

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: b.v

Radchem sample(s) screened (<500 cpm): Y N NA  
 Received by/Company: (Signature) Date/Time: 10/12/21 4:15

Relinquished by/Company: (Signature) Date/Time: 10/1/21 16:00

Relinquished by/Company: (Signature) Date/Time: 10/4/21 10:00

Relinquished by/Company: (Signature) Date/Time: 10/4/21 10:00

1500 MWRK attached / Secure area

Contai  
 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

Lab Profile/Line:	Lab Sample Receipt Checklist:
edg 8011	Custody Seals Present/Intact Y N NA
Bleed on 12PCA 0945 8260 D	Custody Signatures Present Y N NA
	Collector Signatures Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: Y N NA
	Sample pH Acceptable Y N NA
	pH Strips: Y N NA
	Sulfide Present Y N NA
	Lead Acetate Strips: Y N NA

LAB USE ONLY:  
 Lab Sample # / Comments:  
 no odor 899  
 no odor 810  
 no odor 811  
 no odor 812  
 DNS  
 DNS  
 no odor 813  
 ↓  
 92564709

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 92564709  
 Cooler 1 Temp Upon Receipt: 24.0c  
 Cooler 1 Therm Corr. Factor: 0.00c  
 Cooler 1 Corrected Temp: 24.0c  
 Comments:

Lab Tracking #: 2546412  
 Samples received via: FEDEX UPS Client Courier Pace Collyer  
 Date/Time: 10/1/21 09:15  
 Date/Time: 10/1/21 10:00  
 Date/Time: 10/4/21 10:00  
 Table #: Actctnum: Template: Prelogin: PM: PB:  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): YES / NO  
 Page: of:



**LAB U**  
**WO# : 92564709**  
**PM: LNW**  
**CLIENT: 92-SCDHEC**  
**Due Date: 10/08/21**

Number of  
 Conts.  
 33

**CHAIN-OF-CUSTODY Analytical Request Document**  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
 Billing information:

Company: **SCDHEC**  
 Address: **2600 Bell St**  
 Report To: **R Dunn**  
 Copy To:  
 Email To: **Bunn ra@DHEC.SC.GOV**  
 Site Collection Info/Address: **11577 N Jacobson rd**  
 State: **SC** County/City: **Richland** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Customer Project Name/Number: **Bumettes Service station**  
 Phone: Site/Facility ID # **21-7660**  
 Email: Purchase Order #: **21-7660**  
 Collected By (print): **J. J. J. J.** Quote #: **21-7660**  
 Collected By (signature): **J. J. J. J.** Turnaround Date Required: **[ ] Yes [ ] No**

Sample Disposal: **[ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day**  
 [ ] Archive: **[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day**  
 [ ] Hold: **[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day**  
 \* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Res CI	# of Ctns
			Date	Time			
Dup 2	GW	6	7/30/21	14:41		6	6
MEC GAC				14:40		6	6
FB				8:00		2	2
TB							

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Res CI	# of Ctns
			Date	Time			
Dup 2	GW	6	7/30/21	14:41		6	6
MEC GAC				14:40		6	6
FB				8:00		2	2
TB							

Customer Remarks / Special Conditions / Possible Hazards: **Wet Blue Dry None**  
 Type of Ice Used: **Wet**  
 Packing Material Used: **6-b**  
 Radchem sample(s) screened (<500 cpm): **Y N (NA)**  
 Date/Time: **10/13/21 9:15**  
 Date/Time: **10/1/21 16:00**  
 Date/Time: **10/14/21 16:00**

Relinquished by/Company: (Signature) **[Signature]**  
 Relinquished by/Company: (Signature) **[Signature]**  
 Relinquished by/Company: (Signature) **[Signature]**

Page 48 of 50

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: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA  
 LAB USE ONLY:  
 Lab Sample # / Comments: **Dup 2 GWS, MEC GAC, FB, TB**

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: **172624**  
 Cooler 1 Temp Upon Receipt: **24.0C**  
 Cooler 1 Therm Corr. Factor: **0.0C**  
 Cooler 1 Corrected Temp: **24.0C**  
 Comments:



---

## Report of Analysis

**Pace Analytical Services, LLC**  
9800 Kinsey Avenue  
Suite 100  
Huntersville, NC 28078  
Attention: Lindsey N Wooten

Project Name: BURNETTES SELF SERVICE

Project Number: 92564709

Lot Number: **WJ06110**

Date Completed: 10/15/2021

10/15/2021 1:49 PM

Approved and released by:

Project Manager I: **Blaire M. Gagne**



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# PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Pace Analytical Services, LLC Lot Number: WJ06110

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 The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.



# PACE ANALYTICAL SERVICES, LLC

## Sample Summary Pace Analytical Services, LLC Lot Number: WJ06110

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-2	Aqueous	09/30/2021 1009	10/06/2021
002	MW-2D	Aqueous	09/30/2021 1019	10/06/2021
003	MW-3	Aqueous	09/30/2021 1026	10/06/2021
004	MW-4	Aqueous	09/30/2021 1114	10/06/2021
005	MW-5	Aqueous	09/30/2021 1120	10/06/2021
006	MW-7	Aqueous	09/30/2021 1146	10/06/2021
007	MW-7D	Aqueous	09/30/2021 1224	10/06/2021
008	MW-8	Aqueous	09/30/2021 1042	10/06/2021
009	MW-9	Aqueous	09/30/2021 1130	10/06/2021
010	MW-10	Aqueous	09/30/2021 1039	10/06/2021
011	MW-11	Aqueous	09/30/2021 1231	10/06/2021
012	MW-13	Aqueous	09/30/2021 1250	10/06/2021
013	MW-15	Aqueous	09/30/2021 1257	10/06/2021
014	MW-16	Aqueous	09/30/2021 1320	10/06/2021
015	MW-17	Aqueous	09/30/2021 1321	10/06/2021
016	MW-17D	Aqueous	09/30/2021 1337	10/06/2021
017	MW-18	Aqueous	09/30/2021 1344	10/06/2021
018	MW-19	Aqueous	09/30/2021 1415	10/06/2021
019	MW-19D	Aqueous	09/30/2021 1339	10/06/2021
020	MW-20	Aqueous	09/30/2021 1417	10/06/2021
021	SW-2	Aqueous	09/30/2021 1337	10/06/2021
022	SW-3	Aqueous	09/30/2021 1345	10/06/2021
023	SW-4	Aqueous	09/30/2021 1427	10/06/2021
024	SW-5	Aqueous	09/30/2021 1435	10/06/2021
025	DUP-2	Aqueous	09/30/2021	10/06/2021
026	FB	Aqueous	09/30/2021 1440	10/06/2021
027	SUP-1	Aqueous	09/30/2021	10/06/2021

(27 samples)

# PACE ANALYTICAL SERVICES, LLC

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## Detection Summary Pace Analytical Services, LLC Lot Number: WJ06110

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
003	MW-3	Aqueous	1,2-Dibromoethane (EDB)	8011	0.059	P	ug/L	7

(1 detection)

# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-001</b>
Description: <b>MW-2</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1009</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 1919	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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				

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-002</b>
Description: <b>MW-2D</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1019</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 1930	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		102	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-003</b>
Description: <b>MW-3</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1026</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 1941	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.059	P	0.020	ug/L	1

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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-004</b>
Description: <b>MW-4</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1114</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 1952	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		98	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-005</b>
Description: <b>MW-5</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1120</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2003	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		98	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-006</b>
Description: <b>MW-7</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1146</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2014	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		98	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-007</b>
Description: <b>MW-7D</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1224</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2025	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		102	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-008</b>
Description: <b>MW-8</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1042</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2036	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		112	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-009</b>
Description: <b>MW-9</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1130</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2047	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-010</b>
Description: <b>MW-10</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1039</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2058	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		98	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-011</b>
Description: <b>MW-11</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1231</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2109	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		107	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-012</b>
Description: <b>MW-13</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1250</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2120	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		97	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-013</b>
Description: <b>MW-15</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1257</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2131	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-014</b>
Description: <b>MW-16</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1320</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2142	CMF	10/13/2021 1110	18621

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		99	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-015</b>
Description: <b>MW-17</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1321</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2226	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		96	57-137

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LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-016</b>
Description: <b>MW-17D</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1337</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2248	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-017</b>
Description: <b>MW-18</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1344</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2310	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		98	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-018</b>
Description: <b>MW-19</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1415</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2321	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-019</b>
Description: <b>MW-19D</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1339</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2332	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		96	57-137				

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-020</b>
Description: <b>MW-20</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1417</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2343	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		90	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-021</b>
Description: <b>SW-2</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1337</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/13/2021 2354	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-022</b>
Description: <b>SW-3</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1345</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/14/2021 0005	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-023</b>
Description: <b>SW-4</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1427</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/14/2021 0016	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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				

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-024</b>
Description: <b>SW-5</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1435</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/14/2021 0026	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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		98	57-137

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-025</b>
Description: <b>DUP-2</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/14/2021 0037	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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				

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-026</b>
Description: <b>FB</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021 1440</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/14/2021 0048	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

---

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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# EDB & DBCP by Microextraction

Client: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WJ06110-027</b>
Description: <b>SUP-1</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>09/30/2021</b>	
Date Received: <b>10/06/2021</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/14/2021 0059	CMF	10/13/2021 1110	18622

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	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

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      Q = Surrogate failure  
 ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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## QC Summary

## EDB & DBCP by Microextraction - MB

Sample ID: WQ18621-001

Matrix: Aqueous

Batch: 18621

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1110

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	ug/L	10/13/2021 1729
Surrogate	Q	% Rec	Acceptance Limit			
1,1,1,2-Tetrachloroethane		101	57-137			

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

\* = RSD 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 - LCS

Sample ID: WQ18621-002

Matrix: Aqueous

Batch: 18621

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1110

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.28		1	111	60-140	10/13/2021 1740
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		98	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

\* = RSD 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: WQ18622-001

Matrix: Aqueous

Batch: 18622

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1110

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	ug/L	10/13/2021 2204
Surrogate	Q	% Rec	Acceptance Limit			
1,1,1,2-Tetrachloroethane		98	57-137			

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

\* = RSD 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 - LCS

Sample ID: WQ18622-002

Matrix: Aqueous

Batch: 18622

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1110

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	118	60-140	10/13/2021 2215
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		106	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

\* = RSD 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: WJ06110-015MS

Matrix: Aqueous

Batch: 18622

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1110

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	0.28		1	113	60-140	10/13/2021 2237
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		95	57-137					

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

\* = RSD 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 - Duplicate

Sample ID: WJ06110-016DU

Matrix: Aqueous

Batch: 18622

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1110

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	10/13/2021 2259
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		95	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

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

**Chain of Custody  
and  
Miscellaneous Documents**

Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State Of Origin: SC

Cert. Needed:  Yes  No

Owner Received Date: 10/1/2021

Results Requested By: 10/8/2021

Workorder: 82564709 Workorder Name: BURNEITES SELF SERVICE

Report to: [Subcontractor]

Lindsey N Wooten  
Pace Analytical Charlotte  
9800 Kincoy Ave, Suite 100  
Huntersville, NC 28078  
Phone (704)875-9092

Pace Analytical West Columbia  
106 Vantage Point Drive  
West Columbia, SC 29172  
Phone (803)791-9700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Q	Preserved Containers	LAB USE ONLY
1	MW-2	PS	9/30/2021 10:09	92564709001	Water	1		
2	MW-3D	PS	9/30/2021 10:19	92564709002	Water	1		
3	MW-3	PS	9/30/2021 10:26	92564709003	Water	1		
4	MW-4	PS	9/30/2021 11:14	92564709004	Water	1		
5	MW-5	PS	9/30/2021 11:20	92564709005	Water	1		
6	MW-7	PS	9/30/2021 11:46	92564709006	Water	1		
7	MW-7D	PS	9/30/2021 12:24	92564709007	Water	1		
8	MW-8	PS	9/30/2021 10:42	92564709008	Water	1		
9	MW-9	PS	9/30/2021 11:30	92564709009	Water	1		
10	MW-10	PS	9/30/2021 10:39	92564709010	Water	1		
11	MW-11	PS	9/30/2021 12:31	92564709011	Water	1		
12	MW-13	PS	9/30/2021 12:50	92564709012	Water	1		
13	MW-15	PS	9/30/2021 12:57	92564709013	Water	1		
14	MW-16	PS	9/30/2021 13:20	92564709014	Water	1		
15	MW-17	PS	9/30/2021 13:21	92564709015	Water	1		
16	MW-17D	PS	9/30/2021 13:37	92564709016	Water	1		
17	MW-18	PS	9/30/2021 13:44	92564709017	Water	1		
18	MW-19	PS	9/30/2021 14:15	92564709018	Water	1		
19	MW-19D	PS	9/30/2021 13:39	92564709019	Water	1		



BING

EDE by 6911

Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State Of Origin: SC

Cart. Needed:  Yes  No

Workorder: 92564709

Results Requested By: 10/8/2021

Workorder Name: BURNETTES SELF SERVICE

Owner Received Date: 10/12/2021

Report To: Lindsey N Woolen  
 Pace Analytical Charlotte  
 9800 Kinsey Ave. Suite 100  
 Huntersville, NC 28078  
 Phone (704) 875-9092

Requested Analysis:

Subcontract To: Pace Analytical West Columbia  
 106 Vantage Point Drive  
 West Columbia, SC 29172  
 Phone (803) 791-9700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	LAB USE ONLY
20	MW-20	PS	9/30/2021 14:17	92564709020	Water	1	
21	SW-2	PS	9/30/2021 13:37	92564709021	Water	1	
22	SW-3	PS	9/30/2021 13:45	92564709022	Water	1	
23	SW-4	PS	9/30/2021 14:27	92564709023	Water	1	
24	SW-5	PS	9/30/2021 14:36	92564709024	Water	1	
25	DUP-2	PS	9/30/2021 00:00	92564709025	Water	1	
26	FB	PS	9/30/2021 14:40	92564709026	Water	1	
27	DUP-1	PS	9/30/2021 00:00	92564709027	Water	1	

WJ06110  
 8/1/21

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	JKL Pace SW	10-5-21 19:00			10:00			
2								
3	SW Self Service	10/12/2021	J. A. J.	10/12/21				

Cooler Temperature on Receipt 2.3 °C

\*\*\*In order to maintain client confidentiality, location/time of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

# PACE ANALYTICAL SERVICES, LLC



**Samples Receipt Checklist (SRC) (ME0018C-15)**

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

## Sample Receipt Checklist (SRC)

Client: PACE

Cooler Inspected by/date: JSB / 10/06/2021 Lot #: WJ06110

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other: HUNTERSVILLE	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt °C NA / NA °C NA / NA °C %Solid Snap-Cup ID: NA	
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DR0/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625.L/608.3 (< 0.5mg/l.) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) -008,-024,-,025,-026,-027 were received with bubbles >6 mm in diameter.	
Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium tiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: NA	
SR barcode labels applied by: ECC Date: 10/07/2021	
Comments:	



October 15, 2021

Mr. Bryan Shane  
Midlands Environmental  
PO Box 854  
Lexington, SC 29071

RE: Project: 05289/63258 BURNETTES MECI GAC  
Pace Project No.: 92564729

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2021. 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,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental  
Mr. Kyle Pudney, Midlands Environmental



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 05289/63258 BURNETTES MECI GAC

Pace Project No.: 92564729

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### **Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 05289/63258 BURNETTES MECI GAC  
Pace Project No.: 92564729

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92564729001	MECI GAC	Water	09/30/21 14:41	10/01/21 09:15

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 05289/63258 BURNETTES MECI GAC  
Pace Project No.: 92564729

---

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92564729001	MECI GAC	EPA 8260D	SAS	20	PASI-C

---

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 05289/63258 BURNETTES MECI GAC

Pace Project No.: 92564729

Sample: MECI GAC		Lab ID: 92564729001		Collected: 09/30/21 14:41		Received: 10/01/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/05/21 19:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/05/21 19:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/05/21 19:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/05/21 19:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/05/21 19:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/05/21 19:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/05/21 19:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/05/21 19:48	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/05/21 19:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/05/21 19:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/05/21 19:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/05/21 19:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/05/21 19:48	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/05/21 19:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/05/21 19:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/05/21 19:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/05/21 19:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/05/21 19:48	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		10/05/21 19:48	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/05/21 19:48	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 05289/63258 BURNETTES MECI GAC  
Pace Project No.: 92564729

QC Batch: 650911 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92564729001

METHOD BLANK: 3413508 Matrix: Water

Associated Lab Samples: 92564729001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/05/21 16:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/05/21 16:48	
Benzene	ug/L	ND	5.0	1.7	10/05/21 16:48	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/05/21 16:48	
Ethanol	ug/L	ND	200	144	10/05/21 16:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/05/21 16:48	
Ethylbenzene	ug/L	ND	5.0	1.8	10/05/21 16:48	
m&p-Xylene	ug/L	ND	10.0	4.1	10/05/21 16:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/05/21 16:48	
Naphthalene	ug/L	ND	5.0	2.1	10/05/21 16:48	
o-Xylene	ug/L	ND	5.0	2.0	10/05/21 16:48	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/05/21 16:48	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/05/21 16:48	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/05/21 16:48	IK
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/05/21 16:48	
Toluene	ug/L	ND	5.0	2.0	10/05/21 16:48	
Xylene (Total)	ug/L	ND	5.0	5.0	10/05/21 16:48	
1,2-Dichloroethane-d4 (S)	%	88	70-130		10/05/21 16:48	
4-Bromofluorobenzene (S)	%	105	70-130		10/05/21 16:48	
Toluene-d8 (S)	%	101	70-130		10/05/21 16:48	

LABORATORY CONTROL SAMPLE: 3413509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Benzene	ug/L	50	50.8	102	70-130	
Diisopropyl ether	ug/L	50	48.6	97	70-130	
Ethanol	ug/L	2000	1950	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	51.3	103	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	49.8	100	70-130	
Naphthalene	ug/L	50	55.2	110	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1010	101	70-130	
tert-Amylmethyl ether	ug/L	100	100	100	70-130	
tert-Butyl Alcohol	ug/L	500	444	89	70-130	IK
tert-Butyl Formate	ug/L	400	407	102	70-130	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 05289/63258 BURNETTES MECI GAC

Pace Project No.: 92564729

LABORATORY CONTROL SAMPLE: 3413509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	51.0	102	70-130	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3413510 3413511

Parameter	Units	92564709013		3413511		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
1,2-Dichloroethane	ug/L	ND	20	14.3	20	72	76	70-137	6	30	v3
3,3-Dimethyl-1-Butanol	ug/L	ND	400	328	400	82	100	39-157	20	30	
Benzene	ug/L	ND	20	18.0	20	90	96	70-151	7	30	
Diisopropyl ether	ug/L	ND	20	14.7	20	73	78	63-144	6	30	
Ethanol	ug/L	ND	800	590	800	74	73	39-176	1	30	
Ethyl-tert-butyl ether	ug/L	ND	40	30.7	40	77	81	66-137	6	30	
Ethylbenzene	ug/L	ND	20	20.5	20	103	110	66-153	7	30	
m&p-Xylene	ug/L	ND	40	40.5	40	101	111	69-152	9	30	
Methyl-tert-butyl ether	ug/L	ND	20	15.5	20	77	81	54-156	4	30	
Naphthalene	ug/L	ND	20	20.3	20	102	108	61-148	6	30	
o-Xylene	ug/L	ND	20	20.6	20	103	112	70-148	8	30	
tert-Amyl Alcohol	ug/L	ND	400	339	400	85	90	54-153	6	30	
tert-Amylmethyl ether	ug/L	ND	40	36.7	40	92	95	69-139	4	30	
tert-Butyl Alcohol	ug/L	ND	200	168	200	84	95	43-188	12	30	
tert-Butyl Formate	ug/L	ND	160	78.4	160	49	43	10-170	12	30	
Toluene	ug/L	ND	20	18.2	20	91	96	59-148	5	30	
Xylene (Total)	ug/L	ND	60	61.2	60	102	111	63-158	9	30	
1,2-Dichloroethane-d4 (S)	%					86	83	70-130			
4-Bromofluorobenzene (S)	%					92	94	70-130			
Toluene-d8 (S)	%					94	93	70-130			

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 05289/63258 BURNETTES MECI GAC  
Pace Project No.: 92564729

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

IK The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 05289/63258 BURNETTES MECI GAC  
Pace Project No.: 92564729

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92564729001	MECI GAC	EPA 8260D	650911		

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### REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: SCDHEC Billing Information:

Address: 2600 Bell St

Report To: R Duvall Email: R.Duvall@DHEC.SC.GOV

Customer Project Name/Number: Boreholes Service Station State: SC/Ingo Land

Phone: Site/Facility ID #: 21-7660 Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): S. Fran Purchase Order #: DW PWS ID #: DW Location Code: Immediately Packed on Ice: [ ] Yes [ ] No

Collected By (signature): Turnaround Date Required: Field Filtered (if applicable): [ ] Yes [ ] No

Sample Disposal: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day Analysis: [ ] Yes [ ] No

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SU), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cns
			Date	Time	Date	Time		
Duv2	Gr	G	7/30/21				6	X
MEC GAC							6	X
FB							6	X
TR3							2	X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: b-v

Radchem sample(s) screened (<500 cpm): Y N NA

Inquired by/Company: (Signature) Date/Time: 10/11/21 Received by/Company: (Signature) Date/Time: 10/11/21

Inquired by/Company: (Signature) Date/Time: 10/11/21 Received by/Company: (Signature) Date/Time: 10/11/21

Inquired by/Company: (Signature) Date/Time: 10/11/21 Received by/Company: (Signature) Date/Time: 10/11/21

LAB USE

W0#: 92564729

92564729

92564729

Number of

Container: 313

Analyses: \* 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 Tracking #:	Lab Profile/Line:	Lab Sample Receipt Checklist:
2546389		Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signatures Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USA Regulated Soils samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: Y N NA Sample pH Acceptable Y N NA pH Strips: Y N NA Sulfide Present Y N NA Lead Acetate Strips: Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N NA

Lab Tracking #: 2546389

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 10/11/21 0915

Date/Time: 10/11/21 1400

Date/Time: 10/11/21 1400

Table #: MTL PARLISE ONLY

Acctnum: Template: Prelogin: PM: PB:

Temp Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: 112121 Cooler 1 Temp Upon Receipt: 2.4°C Cooler 1 Therm Corr. Factor: 0.0°C Cooler 1 Corrected Temp: 2.4°C

Lab Sample Temperature Info: Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): Page: of:



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## Report of Analysis

**Pace Analytical Services, LLC**  
9800 Kinsey Ave.  
Suite 100  
Huntersville, NC 29078  
Attention: Lindsey N Wooten

Project Name: 05289/63258 BURNETTES MECI GAC

Project Number: 92564729

Lot Number: **WJ09037**

Date Completed: 10/14/2021

10/15/2021 2:54 PM

Approved and released by:

Project Manager I: **Blaire M. Gagne**



The electronic signature above is the equivalent of a handwritten signature.

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# PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative Pace Analytical Services, LLC Lot Number: WJ09037

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 The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

# PACE ANALYTICAL SERVICES, LLC

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Sample Summary  
Pace Analytical Services, LLC  
Lot Number: WJ09037

---

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MECI GAC	Aqueous	09/30/2021 1441	10/07/2021

---

(1 sample)

# PACE ANALYTICAL SERVICES, LLC

---

Detection Summary  
Pace Analytical Services, LLC  
Lot Number: WJ09037

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Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
--------	-----------	--------	-----------	--------	--------	---	-------	------

---

(0 detections)

# EDB & DBCP by Microextraction

Client: Pace Analytical Services, LLC	Laboratory ID: WJ09037-001
Description: MECI GAC	Matrix: Aqueous
Date Sampled: 09/30/2021 1441	
Date Received: 10/07/2021	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/14/2021 0934	CMF	10/13/2021 1550	18666

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		95	57-137					

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      DL = Detection Limit      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 H = Out of holding time      W = Reported on wet weight basis      S = MS/MSD failure

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

## QC Summary



# EDB & DBCP by Microextraction - MB

Sample ID: WQ18666-001

Matrix: Aqueous

Batch: 18666

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1550

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	10/14/2021 0840
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		100	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

P = The RPD between two GC columns exceeds 40%

\* = RSD 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 - LCS

Sample ID: WQ18666-002

Matrix: Aqueous

Batch: 18666

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1550

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.28		1	114	60-140	10/14/2021 0851
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		104	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

P = The RPD between two GC columns exceeds 40%

\* = RSD 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 - Duplicate

Sample ID: WJ09037-001DU

Matrix: Aqueous

Batch: 18666

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/13/2021 1550

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	10/14/2021 0945
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		93	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and  $\geq$  DL

P = The RPD between two GC columns exceeds 40%

\* = RSD is out of criteria

+ = RPD is out of criteria

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

Chain of Custody  
and  
Miscellaneous Documents

Internal Transfer Chain of Custody

Samples Pre-Logged into eCOC.

State Of Origin: SC

Cert. Needed:  Yes  No

Workorder: 92564729 Workorder Name: 05269/63258 BURNETTES MECI GAC Owner Received Date: 10/1/2021 Results Requested By: 10/8/2021

www.pacelabs.com



Report To: Lindsey N Wocien Pace Analytical Charleston 5800 Kinsey Ave, Suite 100 Huntersville, NC 28378 Phone (704)875-5092

Subcontract To: Pace Analytical West Columbia 106 Vantage Point Drive West Columbia, SC 29172 Phone (803)791-9700



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	LAB USE ONLY
1	MCCI GAC	PS	9/30/2021 14:41	92564729001	Walker	1	
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	S.K.C. Pace PVC	10-6-21/14						
2				10-7-21/08A				
3		10-7-21/1515						

Cooler Temperature on Receipt 5.5 °C Custody Seal Y or N Received on Ice Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.



**Samples Receipt Checklist (SRC) (ME0018C-15)**  
Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020  
Page 1 of 1

## Sample Receipt Checklist (SRC)

Client: PACE

Cooler inspected by/date: JSH / 10/09/2021

Lot #: WJ09037

Means of receipt: <input checked="" type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA	
5.5 / 5.5 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes. Quote #
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: NA	
SR barcode labels applied by: JRG2 Date: 10/09/2021	

Comments:

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**APPENDIX B:**

**TAX MAP**



Overview



Legend

-  Parcels
-  Roads

Date created: 2/19/2021  
Last Data Uploaded: 2/19/2021 1:36:55 AM

Developed by  **Schneider**  
GEO SPATIAL





**APPENDIX C:**  
**DISPOSAL MANIFEST**



October 15, 2021

Re: Treatment of Purge Water  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 21-7660

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.

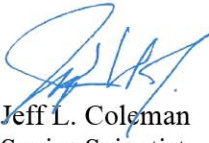
All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**A total of 225.75 gallons were treated on September 30, 2021 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**

RIGHT OF ENTRY - Site ID # 05289

I, H.A. TORRES, JR, certify that I am the legal owner/authorized representative for H.A. TORRES, JR (owner) of the property at 721 H Hwy 17 Ridgeland. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

One well will be installed at the referenced facility for the purpose of collecting a ground-water quality sample for analysis. I understand that this well will be a permanent fixture of the property until assessment and/or cleanup activities are completed. I understand that these are necessary measures to determine the degree of risk the contamination reportedly existing at this property poses to the general public. Additionally, I understand that SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please Print) : H.A. TORRES, JR.  
SIGNATURE : H.A. Torres, Jr.  
WITNESS : C.A. Floyd  
DATE : MAY Month 16 Day 95 Year

Division  
Groundwater Protection  
22 1995

**APPENDIX E**  
**DATA VERIFICATION CHECKLIST**

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
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



<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
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:  
RECEPTOR PHOTOS**



**SW-2**



**SW-3**

A photograph of a stream bank. The water is dark and reflects the surrounding greenery. On the left bank, there are several young pine trees. The right bank is dominated by tall, green, leafy plants with small white flowers. A black plastic cup is visible on the ground near the water's edge. The ground is covered with dry leaves and twigs. A red label 'SW-4' is overlaid on the right side of the image.

**SW-4**

**SW-5**





05289

OCT 07 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: Taylor Cannon, Pace Analytical Services, 9800 Kinney Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)  
Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM  
 BUREAU OF LAND AND WASTE MANAGEMENT  
 2600 Bull Street, Columbia, South Carolina 29201  
 Telephone: 803-898-2544

**MEMORANDUM**

TO: Statelead Groundwater Sampling Contractor

FROM: Arthur Brown

RE: Site Specific Work Plan Request

Facility Name: Burnettes Service Station

Contractor CA# 66244

Permit Number: 5289

PACE CA #: 66245

County: Jasper

RBCA CLASS: 2BB

List Monitoring Wells to be Sampled	Purging Method
Shallow	Purge All 19 Shallow Wells, See Historical Data Table in One Drive
Intermediate	MW-7D, MW-14D, MW-17D, MW-19D
Deep	

Surface Water Points to be Sampled (MUST BE ON MAP PROVIDED)

SW-1 - SW-5

WSW Points to be Sampled (MUST BE ON MAP PROVIDED CONTACT INFO w TAX MAP INFO)

WSW-1 - WSW-4

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: 4

Analysis Being Requested: K14. BTEXNM+1,2 DCA (524.2), K15. 7-OXYGENATES & ETHANOL (8260B), K16. EDB (504.1)





**Midlands  
Environmental  
Consultants, Inc.**

November 1, 2022

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

RECEIVED  
NOV 03 2022  
UST DIVISION

Subject: Site-Specific Work Plan  
Burnette's Service Station  
Ridgeland, South Carolina  
Jasper County  
UST Permit# 05289  
MECI Project Number 22-7994  
Certified Site Rehabilitation Contractor UCC-0009



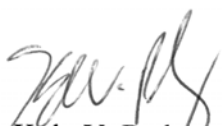
Dear Mr. Brown,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On October 18, 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 questions or comments, please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



Kyle V. Pudney  
Senior Biologist



Jeff L. Coleman  
Senior Scientist



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

To: Mr. Arthur Brown (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Burnettes Service Station UST Permit #: 05289  
 Facility Address: 11577 North Jacob Smart Boulevard, Ridgeland, SC 29936  
 Responsible Party: Fate Burnette, Sr. Phone: 843-726-5098  
 RP Address: P.O. Box 1908, Ridgeland, SC 29936  
 Property Owner (if different): Henry Torres  
 Property Owner Address: P.O. Box 834, Ridgeland, SC 29936  
 Current Use of Property: Repair Shop

**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 (8260D)  Lead  BOD  Methane  
 Oxygenates (8260D)  8 RCRA Metals  Nitrate  Ethanol  
 EDB (8011)  TPH  Sulfate  Dissolved Iron  
 PAH (8270E)  pH  Other \_\_\_\_\_

## Drinking Water Supply Wells:

- BTEXNMDCA (524.2)  Mercury (200.8 245.1 or 245.2)  EDB (504.1)  
 Oxygenates & Ethanol (8260D)  RCRA Metals (200.8)

## Soil:

- BTEXNM  Lead  RCRA Metals  TPH-DRO (3550B/8015B)  Grain Size  
 PAH  Oil & Grease (9071)  TPH-GRO (5030B/8015B)  TOC

## Air:

- BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

\_\_\_\_\_ Soil 4 Water Supply Wells \_\_\_\_\_ Air 2 Field Blank  
24 Monitoring Wells 5 Surface Water 3 Duplicate 3 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 #: 05289 Facility Name: Burnette's Service Station

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 10/31/2022 Field Work Completion: 11/31/2022

Report Submittal: 12/31/2022 # 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-Monitoring wells MW-1, MW-14, MW-14D, MW-15, MW-16, MW-18 and MW-20 were unable to be located. MECI will make every effort possible possible to locate these wells during sampling activities. MW-1 is believed to have been covered by concrete, MW-14/MW-14D is located behind a locked gate and MW-15, MW-16, MW-18, MW-20 are believed to be located in dense woods.

-MECI will attempt to sample five surface locations and 4 water supply wells.

-All wells will be purged prior to sample collection.

-Samples will be analyzed for BTEXNM, DCA, Oxy's and EDB by appropriate methods.

-MECI is requesting pre-approval to replace up to 10 locking bolts and 3 well caps if necessary during the future sampling event

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



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

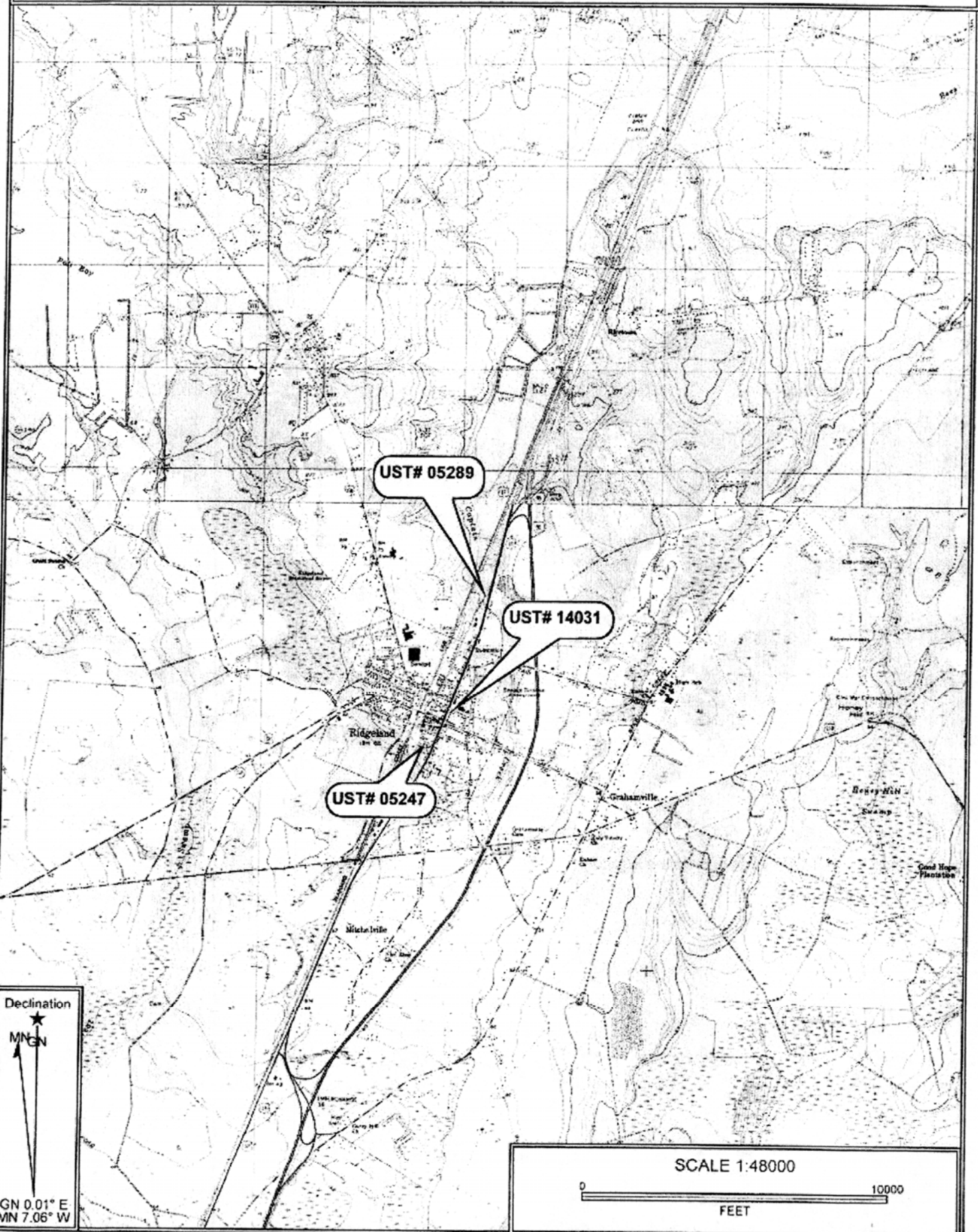
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO # 4600830568**

Facility Name: Burnettes Service Station

UST Permit #: 05289

Cost Agreement #: 63257

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
<b>A. Plan Preparation</b>					
1. Site Specific Work Plan	1	each	\$450.50		\$450.50
2. Tax Map		each	\$53.00		\$0.00
<b>B. Receptor Survey</b>					
		each	\$53.00		\$0.00
<b>D. Mob/Demob</b>					
2. Personnel	2	each	\$646.60		\$1,293.20
<b>J. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>					
1. Groundwater Purge	24	per well	\$10.60		\$254.40
2. Air or Vapors		per sample	\$1.06		\$0.00
3. Water Supply Sample	4	per sample	\$42.40		\$169.60
4. Groundwater No Purge/Surface Water	5	per sample	\$8.48		\$42.40
R-1. HydraSleeve		per sample	\$24.38		\$0.00
5. Gauge Well only		per data point	\$1.06		\$0.00
6. Sample Below Product		per well	\$1.91		\$0.00
7. Passive Diffusion Bag		per well	\$26.50		\$0.00
9. Groundwater (low flow purge)		per well	\$26.50		\$0.00
10. Equipment Blank		per day	\$10.60		\$0.00
<b>Q. Disposal (gallons or tons)</b>					
1. Wastewater	300	per gallon	\$0.35		\$105.00
2. Free Product		per gallon	\$0.01		\$0.00
<b>R. Miscellaneous</b>					
2. Additional Potentiometric Map		each above required two	\$10.60		\$0.00
3. Isoleth Map		each above required one	\$53.00		\$0.00
4. Data Table		per data set	\$106.00		\$0.00
5. Redraw/Digitize Site Map		each	\$159.00		\$0.00
6. Replace Well Lid		each	\$10.60		\$0.00
<b>Y. Well Repair</b>					
1. Additional Copies of Report Delivered		per copy	\$10.60		\$0.00
5. Replace well cover bolts	10	each	\$6.36		\$63.60
6. Replace locking well cap & lock	3	each	\$10.60		\$31.80
10. Replace missing/illegible well ID plate		each	\$10.60		\$0.00
<b>Subtotal</b>					<b>\$2,410.50</b>
<b>S. Report Preparation/Project Coordination</b>			Percent of Subtotal	0%	
<b>TOTAL</b>					<b>\$2,410.50</b>



UST# 05289

UST# 14031

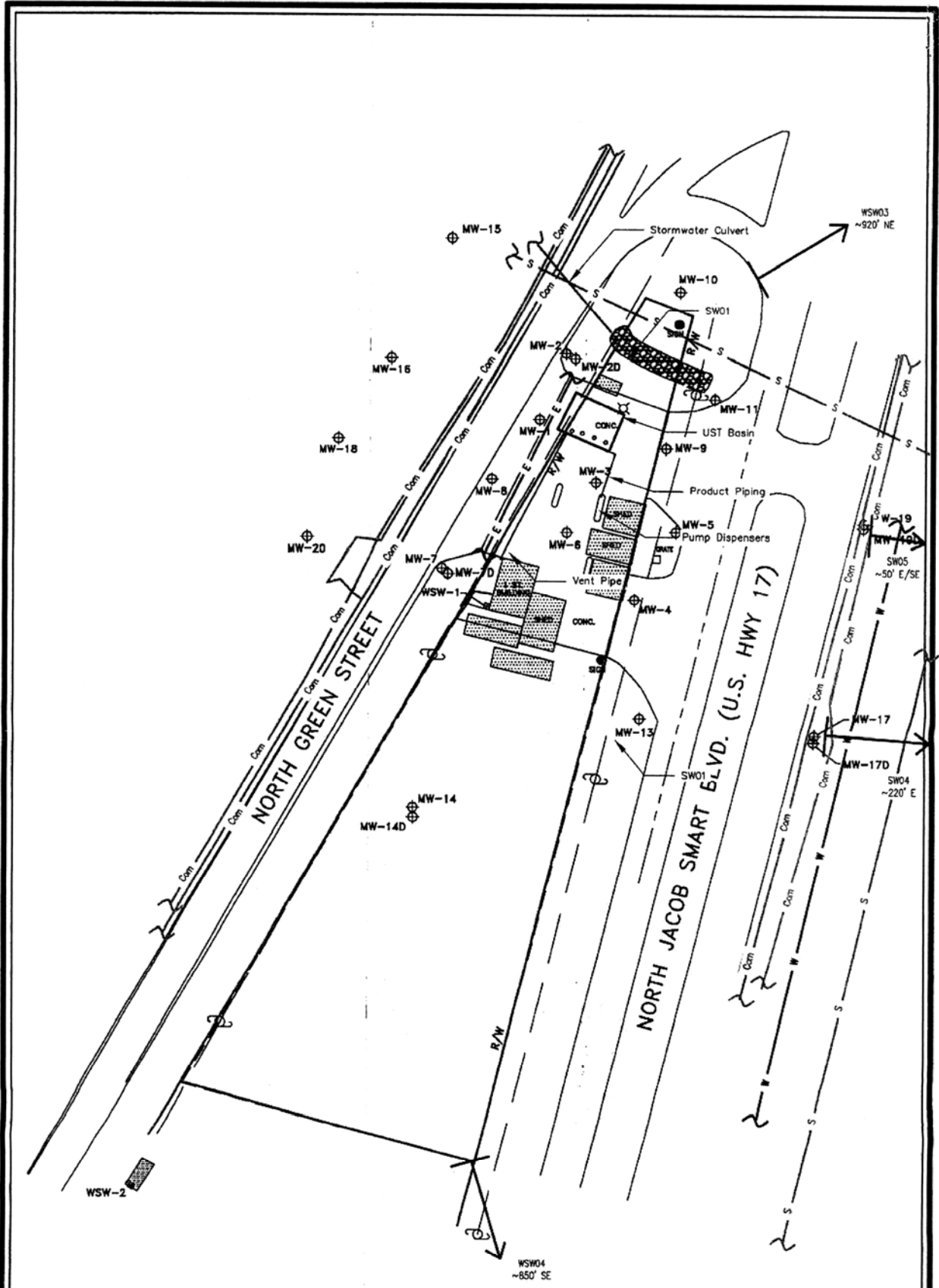
UST# 05247

Declination










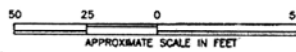
SCALE 1:48000





REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
-  Approximate Location of Underground Electric Line
-  Approximate Location of Underground Communication (Cable/Phone) Line
-  Approximate Location of Underground Water Line
-  Approximate Location of Underground Gas Line
-  Approximate Location of Underground Sewer/Stormwater Line
-  Approximate Property Boundary



Title	Site Base Map
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County
Date	02/25/2015
Job No.	J24-080-A
<b>petra-tech</b> ENGINEERING & CONSULTANTS	
Figure No.	3



NOV 30 2022

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 # 4600907252  
Burnettes Service Station, 11577 North Jacob Smart Boulevard, Ridgeland, SC  
UST Permit #05289; MECI CA #66244; Pace CA #66245  
Jasper 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 and/or contract specific questions, please contact Arthur Brown by email [brownaj@dhec.sc.gov](mailto:brownaj@dhec.sc.gov) or phone (803) 898-0500.

Sincerely,

for Arthur Brown, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Mr. Taylor Cannon, Pace Analytical Services, 9800 Kinsey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)  
Technical File (w/ Enc)

# Approved Cost Agreement 66245

Facility: 05289 BURNETTES SERVICE STATION

BROWNAJ

PO Number: 907254-73

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
K ANALYSES					
	DW DRINKING WATER	14 BTEXNM+1,2 DCA (524.2) WSW	7.0000	\$44.350	310.45
		15 OXYGENATES & ETHANOL 8260B WSW	7.0000	\$21.120	147.84
		16 EDB (504.1) WSW	6.0000	\$23.230	139.38
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	34.0000	\$27.450	933.30
		7 EDB BY EPA 8011	32.0000	\$23.230	743.36
<b>Total Amount</b>					<b>2,274.33</b>



# Approved Cost Agreement 66244

Facility: 05289 BURNETTES SERVICE STATION

BROWNAJ

PO Number: 907252-46

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1 SITE SPECIFIC WORK PLAN	1.0000	\$450.500	450.50
D MOB/DEMOB		2 PERSONNEL	2.0000	\$646.600	1,293.20
J SAMPLE COLLECTION		1 GROUND WATER PURGE	24.0000	\$10.600	254.40
		3 WATER SUPPLY SAMPLE/ DUPLICATE	4.0000	\$42.400	169.60
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	5.0000	\$8.480	42.40
Q DISPOSAL		1 WASTEWATER	300.0000	\$0.350	105.00
Y WELL REPAIR		5 REPLACE WELL COVER BOLTS	10.0000	\$6.360	63.60
		6 REPLACE LOCKING WELL CAP & LOC	3.0000	\$10.600	31.80
			<b>Total Amount</b>		<b>2,410.50</b>

---

# MONITORING REPORT

Burnette's Service Station  
11577 North Jacob Smart Boulevard  
Ridgeland, South Carolina  
Jasper County  
UST Permit# 05289; CA# 66244  
Solicitation# IFB-5400021335; PO# 4600907252

*Prepared By:*

 Midlands  
Environmental  
Consultants, Inc.  
231 Dooley Road, Lexington, SC 29073  
(803) 808-2043 fax: 808-2048

March 2, 2023

MECI Project No. 22-7994

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# Document Receipt Information

Hard Copy

CD

Email

Date Received 7-9-14

Permit Number 05289

Project Manager Menda Hornoskey

Name of Contractor MECI

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

Docket Number 442ch


Scanned \_\_\_\_\_

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# Initial Groundwater Assessment Report

Burnette's Service Station  
Ridgeland, South Carolina  
11577 North Jacob Smart Boulevard  
SCDHEC SITE ID # 05289  
CA # 47400

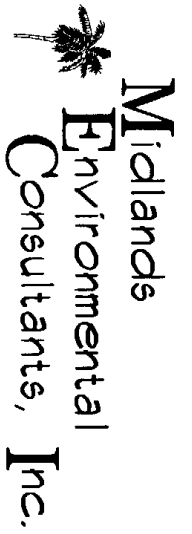
*Prepared By:*

  
Midlands  
Environmental  
Consultants, Inc.  
231 Doolley Road, Lexington, SC 29073  
(803) 808-2043 fax: 808-2048

July 8, 2014

MECI Project No. 14-4757

---



July 8, 2014

Ms. Minda Hornosky, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Section  
UST Management Division  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

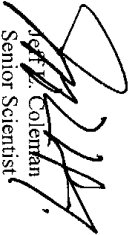
Subject: Initial Groundwater Assessment Report  
Burnette's Service Station  
11577 North Jacob Smart Boulevard  
Ridgeland, South Carolina  
SCDHEC Site ID# 05289, CA# 47400  
MECI Project Number 14-4757  
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Hornosky,

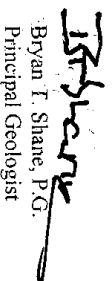
Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Initial Ground-Water Assessment (IGWA) Report for the referenced site. This report describes assessment activities conducted at the site, and results of an IGWA evaluation in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines. As outlined, please find the attached well construction logs, laboratory data, topographic and site base maps, along with Disposal Manifests.

MECI appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 808-2043 if you have any immediate questions or comments.

Sincerely,  
Midlands Environmental Consultants, Inc.



Jeff Coleran  
Senior Scientist



Bryan T. Shane, P.G.  
Principal Geologist

Post Office Box 854, Lexington SC 29071 • 231 Doolley Road, Lexington, SC 29073  
Telephone: (803) 808-2043 • Fax: (803) 808-2048

## INITIAL GROUND-WATER ASSESSMENT REPORT

**Facility Name:** Burnette's Service Station  
**Tax Map #:** Jasper County TMS# 062-22-03-001  
**Facility Address:** 11577 North Jacob Smart Boulevard  
**Facility Phone Number:** N/A  
**UST Permit Number:** 05289  
**UST Owner or Operator's Name:** Fate Burnette, Sr.  
**Address:** P. O. Box 1908, Ridgeland, SC 29336  
**Phone Number:** (843) 726-5098  
**Property Owner's Name:** Henry Torres, Jr.  
**Address:** P. O. Box 834, Ridgeland, SC 29336  
**Phone Number:** (843) 726-2217 (Office) & (843) 726-2222 (Cell)  
**Contractor:** Midlands Environmental Consultants      Cert. # 9  
**Address:** 231 Dooley Road, Lexington, SC 29073  
**Phone Number:** 803-808-2043  
**Well Driller:** EDPS      (David Brown)      Cert. # B 02053  
**Address:** 17539 Greenhill Road, Charlotte, NC 28278  
**Phone Number:** (704) 607-7529  
**Laboratory:** Shealy Environmental Services, Inc.      Cert. # 32010  
**Address:** 106 Vantage Point Drive, West Columbia, SC 29172  
**Phone Number:** (803) 791-9700

**Project Background:**

The subject site (Burnette's Service Station) is located at 11577 North Jacob Smart Boulevard in Ridgeland Jasper County, South Carolina and is currently occupied by "Little T's Garage". The subject site currently maintains two 4,000 gallon gasoline underground storage tanks (UST's), one 6,000 gallon gasoline UST, and one 3,000 gallon diesel UST. According to SCDHEC files, the UST's in question were abandoned by removal from the ground; however, there is clear evidence that these UST's still remain installed on the property. The South Carolina Department of Health and Environmental Control (SCDHEC) reported a release of petroleum product from the subject tanks in December of 1991 and confirmed the release in March of 1993. The subject site is currently rated a Class 2BB.

Prior to installation of the GWA monitoring well, MECI attempted on several occasions to acquire onsite property access; however property access was denied. Based on the denial, MECI submitted and was granted approval to install the monitoring well within the SCDOT Right-of-Way.

**Receptor and Site Data**

Please place a check in the appropriate answer block for each question:

Receptor Survey Questions	No	Yes *
Is there a drinking water supply well (public or private) or surface water supply intake within 1000 feet of the UST?		X
Are irrigation or other non-drinking water wells located within 1000 feet of the UST?	X	
Are there other potential receptors ( i.e., utilities, surface waters, wetlands) less than 500 feet from the UST?		X

\*If "yes" provide additional information:

Water Supply Wells: Two water supply wells were located near the referenced site. WSW-1 is located onsite, off the southwest corner of the onsite structure. Samples were collected from this water well and analytical results do not indicate petroleum impact. WSW-2 is located approximately 480' feet southwest of the subject site at the Plantation Motel. An attempt was made to sample this water well, however this well was determined to be non-functioning.

Surface Waters: A drainage ditch is located in the northern portion of the property in question. A pond is located approximately 575' feet northeast of the subject site. This pond is in association with Captain Bill's Creek which topographically is located approximately 850' feet northeast.

Underground Utilities: Telephone lines run along the western shoulder of Northern Green Street. Water line runs along the eastern shoulder of North Jacob Smart Boulevard. A storm sewer runs along the western shoulder of North Jacob Smart Boulevard.

Were any WSW's within 250 ft radius sampled?   X   Yes    No  
 (Show on site base map)  
 Is a public water supply line in the area?   X   Yes    No  
 (Show on site base map)  
 Is the current use of the site and surrounding properties commercial, residential,  
 agricultural or industrial?

Site: Commercial Property Adjacent Properties: Commercial, Undeveloped

**Soil and Boring/Monitoring Well Data**

Primary Soil Type: Silty SAND underlain by CLAY

Well Installation Method and Date: Augered 6/4/2014

Development Method: Submersible Pump (7.0 Gallons)

Soil Sample obtained at 0'-2' feet

**Methodology:**

The soil sample, taken from above the water table, was collected from continuous split spoon  
 samples. Following collection, samples were placed on ice and transported to Shealy  
 Environmental Services (SCDHEC Certified Laboratory # 032010) for analysis.

**SOIL ANALYTICAL DATA**

Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	Naphthalene (ug/kg)	MTBE (ug/kg)	Lead (mg/kg)
<b>84</b>	<b>15,000</b>	<b>5,200</b>	<b>48,000</b>	<b>6,300</b>	<b>&lt;4.3</b>	<b>6.6</b>
Benzo(a)- anthracene (ug/kg)	Benzo(b)- fluoranthene (ug/kg)	Benzo(k)- fluoranthene (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h)- anthracene (ug/kg)	Total PAH (ug/kg)	
<380	<380	<380	<380	<380	BDL	

\*For waste oil UST releases only:

Chromium* (ug/kg)	Mercury* (ug/kg)	Selenium* (ug/kg)	Silver* (ug/kg)	Arsenic* (ug/kg)	Barium* (ug/kg)	Cadmium* (ug/kg)
NA	NA	NA	NA	NA	NA	NA

Include Laboratory Data and Chain of Custody Form in Appendix B.



**Ground-Water Data:**

Depth to Ground Water: 3.76 Depth to FP, if present: NA

Free Product Thickness: NA

Well Purging/Sampling Method: Purged 5.0 gallons by hand with bailer

Date Sampled: 6/17/2014

Equilibrated values: Temperature: 27.1 pH: 6.25

Dissolved Oxygen: 2.39 Conductivity: 306.1

**Soil/Water Disposal Method:** Richland County Landfill / GAC unit

\*Include in Appendix G. Costs for work cannot be compensated without Manifests.

**GROUND-WATER ANALYTICAL DATA**

	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Naphthalene (ug/l)	MTBE (ug/l)	EDB (ug/l)
MM-1	470	1,700	420	760	940	<100	<0.020
WSW-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020

	Benzo(a)-anthracene (ug/l)	Benzo(b)-fluoranthene (ug/l)	Benzo(k)-fluoranthene (ug/l)	Chrysene (ug/l)	Dibenz(a,h)-anthracene (ug/l)	Total PAH (ug/l)	Filtered Lead (ug/l)
MM-1	<5.0	<5.0	<5.0	<5.0	<5.0	BDL	12
WSW-1	NT	NT	NT	NT	NT	NT	NT

\*For waste oil UST releases only:

	Chromium* (ug/l)	Mercury* (ug/l)	Selenium* (ug/l)	Silver* (ug/l)	Arsenic* (ug/l)	Barium* (ug/l)	Cadmium* (ug/l)
	NA	NA	NA	NA	NA	NA	NA

Include Laboratory Data and Chain of Custody Form in Appendix B.

Report Completed By (Print Name): Jeff L. Coleman

Signature: 

Contractor Certification # 609

Date: 7/8/14

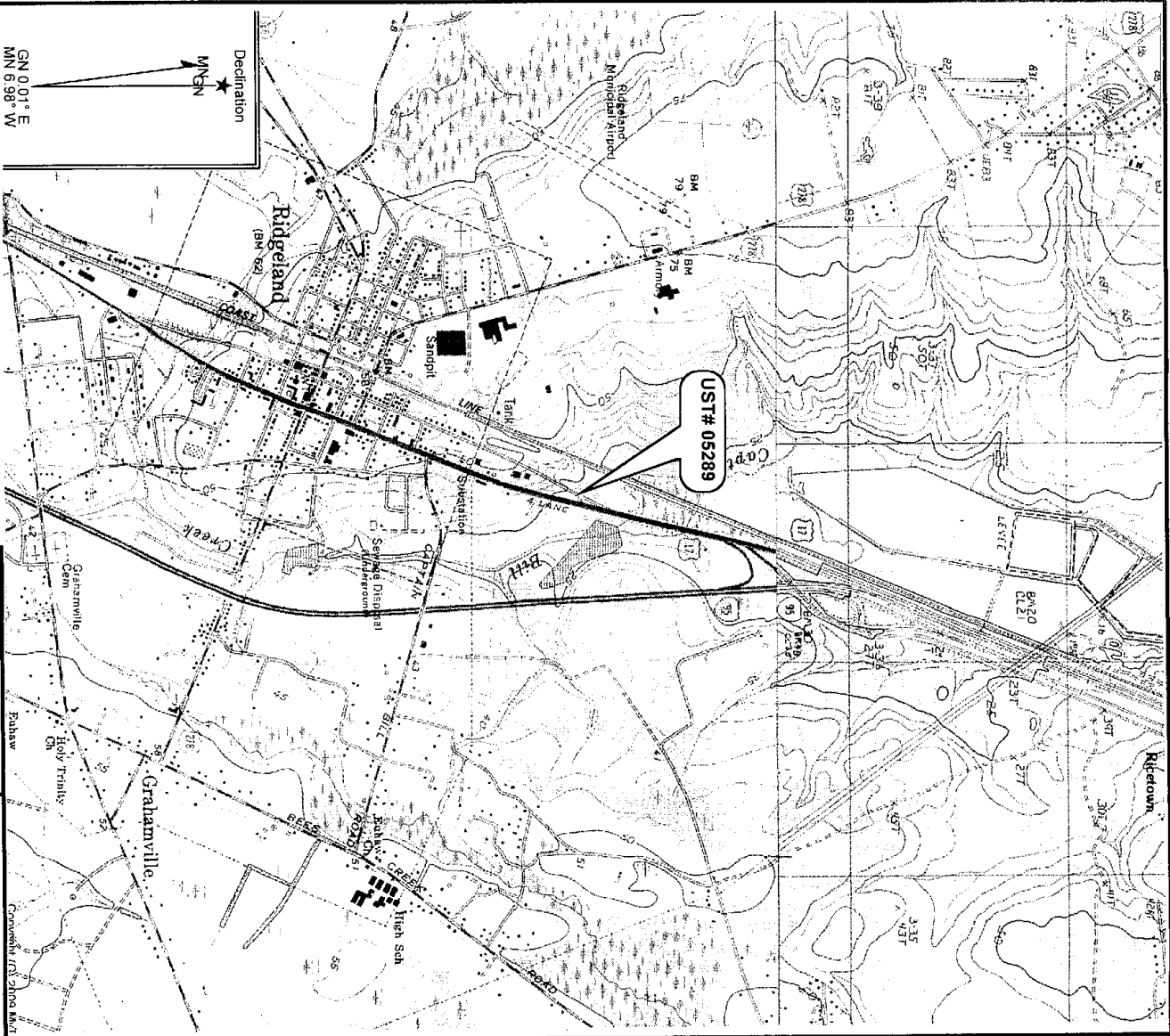
## Appendices

The appendices required for this report are as follows:

- \*\*Appendix A.** Site Survey
- Appendix B.** Sampling Logs, Laboratory Data Sheets and Chain of Custody Forms
- \*\*Appendix C.** Tax Map Data
- \*\*Appendix D.** Soil Boring/Field Screening Logs & 1903 Forms
- Appendix E.** Well Logs & 1903 Forms
- \*\*Appendix F.** Aquifer Evaluation Summary Forms, Data, Graphs, Equations
- Appendix G.** Disposal Manifests
- \*\*Appendix H.** Local Zoning Regulations
- \*\*Appendix I.** Fate & Transport Modeling
- Appendix J.** Access Agreements
- Appendix K.** Data Verification Checklist

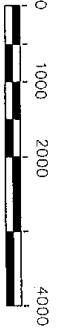
**Note: Items listed with an \*\* beside it were not needed as part of this assessment.**

**FIGURES**



Declination  
 MN  
 GN 0.01° E  
 MN 6.98° W

GRAPHIC SCALE



Reference: Ridgeland, South Carolina  
 USGS 7.5 Min. Quad  
 Contour Interval—5 feet

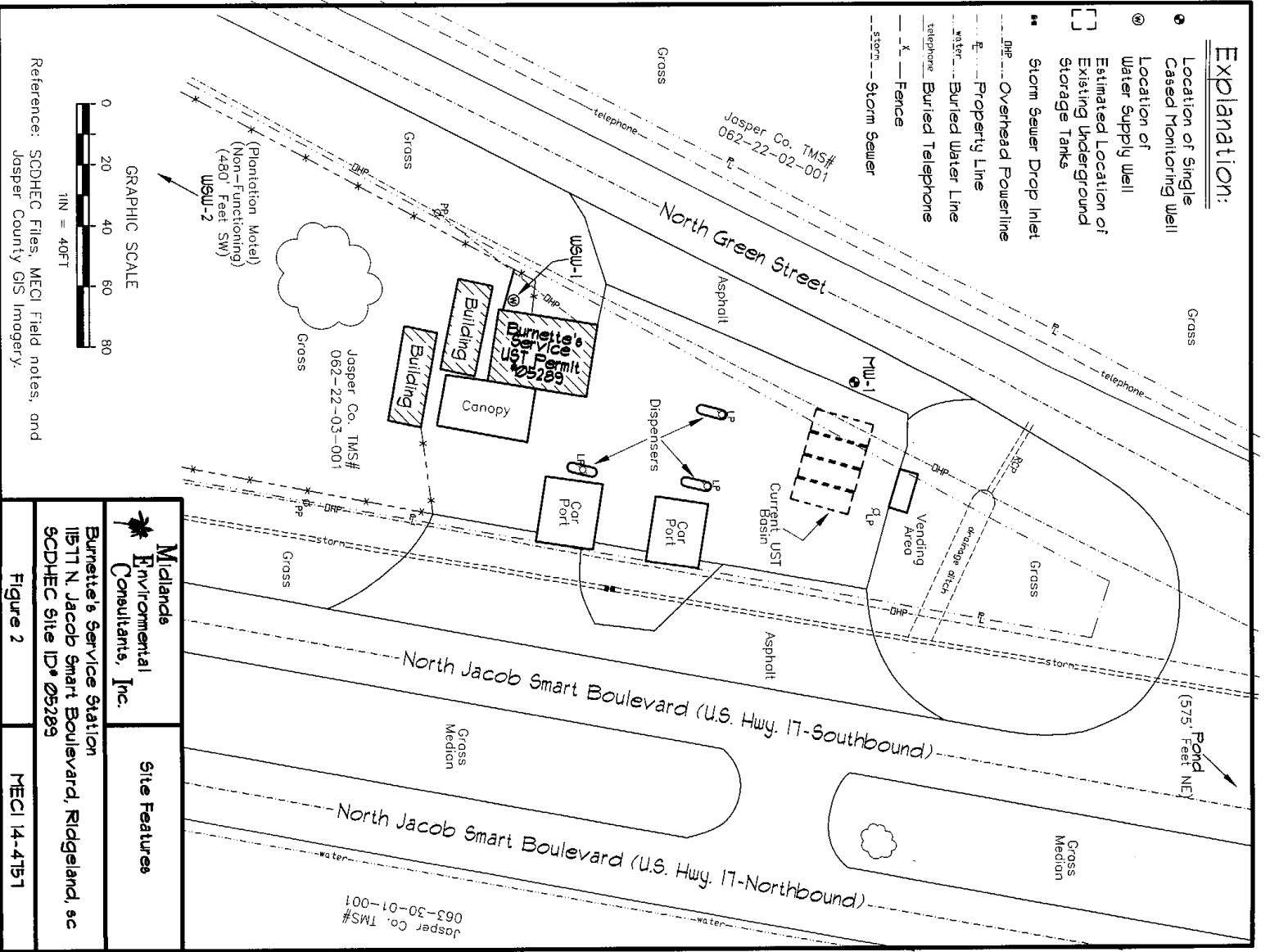
Miclands  
 Environmental  
 Consultants, Inc.

Site Location

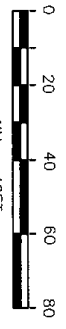
Burnette's Service Station  
 11571 N/ Jacob Smart Boulevard, Ridgeland, SC  
 SCDHEC Site ID# 05289  
 Figure 1  
 MEC114-4151

**Explanation:**

- Location of Single Cased Monitoring Well
- ⊙ Location of Water Supply Well
- ⊠ Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet
- Overhead Powerline
- - - Property Line
- - - Buried Water Line
- - - Buried Telephone
- - - X - - - Fence
- - - Storm Sewer



GRAPHIC SCALE



Reference: SCDHEC Files, MECI Field notes, and Jasper County GIS Imagery.

**MiLande Environmental Consultants, Inc.**

**Site Features**

Burnette's Service Station  
11577 N. Jacob Smart Boulevard, Ridgeland, SC  
SCDHEC Site ID# 05289

Figure 2

MECI 14-4751

**APPENDIX A:**  
**SITE SURVEY**  
*(Not Applicable)*

**SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS**

**APPENDIX B:**





**SHEALY ENVIRONMENTAL SERVICES, INC.**

**Report of Analysis**

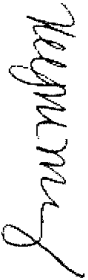
**Midlands Environmental Consultants, Inc.**  
235 Dooley Rd  
Lexington, SC 29073  
Attention: Bryan Shane

Project Name: Burnette's Service Station

Project Number: 14-4757

Lot Number: PF05024

Date Completed: 06/13/2014

  
Kelly M. Maberry  
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.  
The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • •

# **SHEALY ENVIRONMENTAL SERVICES, INC.**

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## **Case Narrative**

**Midlands Environmental Consultants, Inc.**

**Lot Number: PF05024**

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Midlands Environmental Consultants, Inc.

Lot Number: PF05024

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MM-1 (GWA) "0-2"	Solid	06/04/2014 1735	06/05/2014
002	MM-1 (GWA) Dup "0-2"	Solid	06/04/2014 1735	06/05/2014
003	Field Blank	Aqueous	06/04/2014 1740	06/05/2014
004	Trip Blank	Aqueous	06/04/2014 1741	06/05/2014

(4 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Midlands Environmental Consultants, Inc.

Lot Number: PF05024

Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001 MM-1 (GWA) "0-2"	Solid	Benzene	8260B	84		ug/kg	5
001 MM-1 (GWA) "0-2"	Solid	Ethylbenzene	8260B	5200		ug/kg	5
001 MM-1 (GWA) "0-2"	Solid	Naphthalene	8260B	6300		ug/kg	5
001 MM-1 (GWA) "0-2"	Solid	Toluene	8260B	15000		ug/kg	5
001 MM-1 (GWA) "0-2"	Solid	Xylenes (total)	8260B	48000		ug/kg	5
001 MM-1 (GWA) "0-2"	Solid	Naphthalene	8270D	1500		ug/kg	5
001 MM-1 (GWA) "0-2"	Solid	Lead	6010C	6.6		mg/kg	6
002 MM-1 (GWA) Dup "0-2"	Solid	Benzene	8260B	120		ug/kg	7
002 MM-1 (GWA) Dup "0-2"	Solid	Ethylbenzene	8260B	4600		ug/kg	7
002 MM-1 (GWA) Dup "0-2"	Solid	Naphthalene	8260B	11000		ug/kg	7
002 MM-1 (GWA) Dup "0-2"	Solid	Toluene	8260B	14000		ug/kg	7
002 MM-1 (GWA) Dup "0-2"	Solid	Xylenes (total)	8260B	27000		ug/kg	7
002 MM-1 (GWA) Dup "0-2"	Solid	Naphthalene	8270D	1300		ug/kg	7
002 MM-1 (GWA) Dup "0-2"	Solid	Lead	6010C	11		mg/kg	8

(14 detections)

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	06/07/2014 1543	JUG		48469	5.40
2	5035	8260B	50	06/10/2014 0224	JUG		48581	5.65
3	5035	8260B	500	06/11/2014 0452	JUG		48685	5.65

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	84		4.3	0.94	ug/kg	1
Ethylbenzene	100-41-4	8260B	5200		200	69	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		4.3	0.34	ug/kg	1
Naphthalene	91-20-3	8260B	6300		200	69	ug/kg	2
Toluene	108-88-3	8260B	15000		200	69	ug/kg	2
Xylenes (total)	1330-20-7	8260B	48000		2600	1500	ug/kg	3

Surrogate	Run 1 % Recovery	Acceptance Limits	Run 2 % Recovery	Acceptance Limits	Run 3 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	91	53-142	85	53-142	100	53-142
Bromofluorobenzene	88	47-138	66	47-138	81	47-138
Toluene-d8	107	68-124	83	68-124	94	68-124

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	06/11/2014 1350	RBH	06/10/2014 1441	48634

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		380	12	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		380	15	ug/kg	1
Anthracene	120-12-7	8270D	ND		380	17	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		380	13	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		380	28	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		380	26	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		380	26	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		380	31	ug/kg	1
Chrysene	218-01-9	8270D	ND		380	12	ug/kg	1
Dibenz(a,h)anthracene	53-70-3	8270D	ND		380	25	ug/kg	1
Fluoranthrene	206-44-0	8270D	ND		380	12	ug/kg	1
Fluorene	86-73-7	8270D	ND		380	15	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		380	34	ug/kg	1
Naphthalene	91-20-3	8270D	1500		380	16	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		380	15	ug/kg	1
Pyrene	129-00-0	8270D	ND		380	16	ug/kg	1

FQL = Practical quantification limit  
 ND = Not detected at or above the MDL  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Midlands Environmental Consultants, Inc. Laboratory ID: PF05024-001  
 Description: MW-1 (IGWA) "0-2" Matrix: Solid  
 Date Sampled: 06/04/2014 1735 % Solids: 85.9 06/11/2014 2134  
 Date Received: 06/05/2014

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	66	33-102	
Nitrobenzene-d5	71	22-109	
Terphenyl-d14	90	41-120	

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	06/10/2014 0223	BNW	06/06/2014 1036	48363

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	6.6		0.43	0.080	mg/kg	1

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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  
 F = The RPD between two GC columns exceeds 40%  
 H = Out of holding time  
 N = Recovery is out of criteria

**Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	06/07/2014 1607	JJG		48469	5.96
2	5035	8260B	50	06/10/2014 0247	JJG		48581	4.98
3	5035	8260B	500	06/11/2014 0515	JJG		48685	4.98

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	120		6.2	1.4	ug/kg	1
Ethylbenzene	100-41-4	8260B	4600		370	130	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		6.2	0.49	ug/kg	1
Naphthalene	91-20-3	8260B	11000		370	130	ug/kg	2
Toluene	108-88-3	8260B	14000		370	130	ug/kg	2
Xylenes (total)	1330-20-7	8260B	27000		3700	2100	ug/kg	3

Surrogate	Run 1 % Recovery	Run 1 Acceptance Limits	Run 2 % Recovery	Run 2 Acceptance Limits	Run 3 % Recovery	Run 3 Acceptance Limits
1,2-Dichloroethane-d4	91	53-142	90	53-142	95	53-142
Bromofluorobenzene	87	47-138	77	47-138	74	47-138
Toluene-d8	117	68-124	90	68-124	86	68-124

**Semivolatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	06/11/2014 1414	RBH	06/10/2014 1441	48634

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		480	15	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		480	19	ug/kg	1
Anthracene	120-12-7	8270D	ND		480	21	ug/kg	1
Benzofluoranthracene	56-55-3	8270D	ND		480	16	ug/kg	1
Benzofluoranthene	50-32-8	8270D	ND		480	35	ug/kg	1
Benzofluoranthene	205-99-2	8270D	ND		480	32	ug/kg	1
Benzofluoranthene	191-24-2	8270D	ND		480	33	ug/kg	1
Chrysene	207-08-9	8270D	ND		480	39	ug/kg	1
Dibenzofluoranthene	218-01-9	8270D	ND		480	15	ug/kg	1
Fluoranthene	53-70-3	8270D	ND		480	32	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		480	15	ug/kg	1
Fluorene	86-73-7	8270D	ND		480	18	ug/kg	1
Indeno(1,2,3-c-d)pyrene	193-39-5	8270D	ND		480	43	ug/kg	1
Naphthalene	91-20-3	8270D	1300		480	20	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		480	19	ug/kg	1
Pyrene	129-00-0	8270D	ND		480	21	ug/kg	1

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"  
 B = Detected in the method blank  
 E = Quantitation of compound exceeded the calibration range  
 H = Out of holding time  
 J = Estimated result < PQL and > MDL  
 P = The RPD between two GC columns exceeds 40%  
 N = Recovery is out of criteria  
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Client: Midlands Environmental Consultants, Inc.  
 Description: MW-1 (IGWA) Dup "0-2"  
 Date Sampled: 06/04/2014 1735  
 Date Received: 06/05/2014

Laboratory ID: PF05024-002  
 Matrix: Solid  
 % Solids: 68.0 06/05/2014 2052

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	68	33-102	
Nitrobenzene-d5	72	22-109	
Terphenyl-d14	84	41-120	

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	06/10/2014 0238	BNW	06/06/2014 1036	48363

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	11		0.71	0.13	mg/kg	1

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 B = Detected in the method blank  
 J = Estimated result < PQL and ≥ MDL  
 E = Quantitation of compound exceeded the calibration range  
 H = Out of holding time  
 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%  
 N = Recovery is out of criteria  
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Client: Midlands Environmental Consultants, Inc.  
 Description: Field Blank  
 Date Sampled: 06/04/2014 17:40  
 Date Received: 06/05/2014

Laboratory ID: PF05024-003  
 Matrix: Aqueous

**Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/10/2014 11:15	ALL		48612

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1
<b>Surrogate</b>				<b>Q</b>	<b>% Recovery</b>	<b>Acceptance Limits</b>		
1,2-Dichloroethane-d4	106	70-130						
Bromofluorobenzene	104	70-130						
Toluene-d8	109	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 MDL  
 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"  
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Client: Midlands Environmental Consultants, Inc.  
 Description: Trip Blank  
 Date Sampled: 06/04/2014 17:41  
 Date Received: 06/05/2014

Laboratory ID: PF05024-004  
 Matrix: Aqueous

**Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8280B	1	06/10/2014 11:38	ALL		48812

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8280B	ND		5.0	1.7	ug/L	1
<b>Q % Recovery Acceptance</b>								
<b>Surrogate</b>			<b>Run 1</b>	<b>Acceptance</b>				
1,2-Dichloroethane-d4	105	70-130	105	70-130				
Bromofluorobenzene	104	70-130	104	70-130				
Toluene-d8	109	70-130	109	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 MDL  
 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"

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## QC Summary

**Volatile Organic Compounds by GC/MS - MB**

Sample ID: PQ48469-001      Matrix: Solid  
 Batch: 48469      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	1.1	ug/kg	06/07/2014 1238
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/kg	06/07/2014 1238
Surrogate	Q	% Rec			Acceptance Limit		
Bromofluorobenzene	88				47-138		
1,2-Dichloroethane-d4	97				53-142		
Toluene-d8	97				68-124		

**Volatile Organic Compounds by GC/MS - LCS**

Sample ID: PQ48469-002      Matrix: Solid  
 Batch: 48469      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	43		1	87	69-123	06/07/2014 1102
Methyl tertiary butyl ether (MTBE)	50	43		1	86	70-130	06/07/2014 1102
Surrogate	Q	% Rec			Acceptance Limit		
Bromofluorobenzene	86				47-138		
1,2-Dichloroethane-d4	95				53-142		
Toluene-d8	97				68-124		

**Volatile Organic Compounds by GC/MS - LCSD**

Sample ID: PQ48469-003      Matrix: Solid  
 Batch: 48469      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	43		1	87	0.042	69-123	20	06/07/2014 1126
Methyl tertiary butyl ether (MTBE)	50	44		1	89	2.6	70-130	20	06/07/2014 1126

PCL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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: PQ48469-003      Matrix: Solid  
 Batch: 48469      Prep Method: 5035  
 Analytical Method: 8260B

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene	89		47-138
1,2-Dichloroethane-d4	97		53-142
Toluene-d8	100		68-124

**Volatile Organic Compounds by GC/MS - MIB**

Sample ID: PQ48581-001      Matrix: Solid  
 Batch: 48581      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Ethylbenzene	ND		50	250	85	ug/kg	06/10/2014 0137
Naphthalene	ND		50	250	85	ug/kg	06/10/2014 0137
Toluene	ND		50	250	85	ug/kg	06/10/2014 0137
Surrogate		Q	% Rec	Acceptance Limit			
Bromofluorobenzene	83			47-138			
1,2-Dichloroethane-d4	114			53-142			
Toluene-d8	101			68-124			

**Volatile Organic Compounds by GC/MS - LCS**

Sample ID: PQ48581-002      Matrix: Solid  
 Batch: 48581      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	DII	% Rec	% Rec Limit	Analysis Date
Ethylbenzene	2500	2700		50	109	59-128	06/10/2014 0028
Naphthalene	2500	2800		50	113	54-131	06/10/2014 0028
Toluene	2500	2700		50	108	61-129	06/10/2014 0028
Surrogate		Q	% Rec	Acceptance Limit			
Bromofluorobenzene	94			47-138			
1,2-Dichloroethane-d4	109			53-142			
Toluene-d8	109			68-124			

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 MDL      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**

**Volatile Organic Compounds by GC/MS - LCSD**

Sample ID: PQ48581-003      Matrix: Solid  
 Batch: 48581      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Ethylbenzene	2500	2500		50	100	8.8	59-128	20	06/10/2014 0051
Naphthalene	2500	2700		50	106	6.3	54-131	20	06/10/2014 0051
Toluene	2500	2500		50	100	7.5	61-129	20	06/10/2014 0051
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>						
Bromofluorobenzene	92	47-138							
1,2-Dichloroethane-d4	107	53-142							
Toluene-d8	104	68-124							

**Volatile Organic Compounds by GC/MS - Duplicate**

Sample ID: PF05024-001DU      Matrix: Solid  
 Batch: 48581      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Sample Amount (ug/kg)	Result (ug/kg)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Ethylbenzene	5200	5500		50	5.4	20	06/10/2014 0310
Naphthalene	6300	6500		50	2.4	20	06/10/2014 0310
Toluene	15000	15000		50	0.94	20	06/10/2014 0310
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
1,2-Dichloroethane-d4	84	53-142					
Bromofluorobenzene	70	47-138					
Toluene-d8	84	68-124					

**Volatile Organic Compounds by GC/MS - MS**

Sample ID: PF05024-002MS      Matrix: Solid  
 Batch: 48581      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Ethylbenzene	4600	3700	8800		50	115	59-128	06/10/2014 0333
Naphthalene	11000	3700	14000		50	99	54-131	06/10/2014 0333
Toluene	14000	3700	18000		50	107	61-129	06/10/2014 0333

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 MDL      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**

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**Volatile Organic Compounds by GC/MS - MS**

Sample ID: PC05024-002MS      Matrix: Solid  
 Batch: 48581      Prep Method: 5035  
 Analytical Method: 8260B

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4	91		53-142
Bromofluorobenzene	74		47-138
Toluene-d8	88		68-124

**Volatile Organic Compounds by GC/MS - MB**

Sample ID: PC48612-001      Matrix: Aqueous  
 Batch: 48612      Prep Method: 5030B  
 Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	06/10/2014 1030
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/10/2014 1030
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/10/2014 1030
Naphthalene	ND		1	5.0	1.7	ug/L	06/10/2014 1030
Toluene	ND		1	5.0	1.7	ug/L	06/10/2014 1030
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/10/2014 1030
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
Bromofluorobenzene	104		70-130				
1,2-Dichloroethane-d4	104		70-130				
Toluene-d8	109		70-130				

**Volatile Organic Compounds by GC/MS - LCS**

Sample ID: PC48612-002      Matrix: Aqueous  
 Batch: 48612      Prep Method: 5030B  
 Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	47		1	95	70-130	06/10/2014 0900
Ethylbenzene	50	51		1	102	70-130	06/10/2014 0900
Methyl tertiary butyl ether (MTBE)	50	48		1	96	70-130	06/10/2014 0900
Naphthalene	50	52		1	105	70-130	06/10/2014 0900
Toluene	50	51		1	101	70-130	06/10/2014 0900
Xylenes (total)	100	110		1	106	70-130	06/10/2014 0900

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 P = The RPD between two GC columns exceeds 40%  
 J = Estimated result < PQL and 2 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: PQ48612-002      Matrix: Aqueous  
 Batch: 48612      Prep Method: 5030B  
 Analytical Method: 8260B

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene	104		70-130
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	108		70-130

**Volatile Organic Compounds by GC/MS - LCSD**

Sample ID: PQ48612-003      Matrix: Aqueous  
 Batch: 48612      Prep Method: 5030B  
 Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	48		1	97	1.6	70-130	20	06/10/2014 0923
Ethylbenzene	50	52		1	104	1.9	70-130	20	06/10/2014 0923
Methyl tertiary butyl ether (MTBE)	50	46		1	93	2.4	70-130	20	06/10/2014 0923
Naphthalene	50	54		1	109	3.9	70-130	20	06/10/2014 0923
Toluene	50	50		1	100	1.4	70-130	20	06/10/2014 0923
Xylenes (total)	100	110		1	109	2.1	70-130	20	06/10/2014 0923
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	106		70-130						
1,2-Dichloroethane-d4	100		70-130						
Toluene-d8	106		70-130						

**Volatile Organic Compounds by GC/MS - MB**

Sample ID: PQ48685-001      Matrix: Solid  
 Batch: 48685      Prep Method: 5035  
 Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Xylenes (total)	ND			250	150	ug/kg	06/10/2014 0137
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene	83		47-138				
1,2-Dichloroethane-d4	114		53-142				
Toluene-d8	101		68-124				

PQL = Practical Quantitation Limit

ND = Not detected at or above the MDL

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 2x MDL

+ = RPD is out of criteria

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: PQ48685-002  
 Batch: 48685  
 Analytical Method: 8260B

Matrix: Solid  
 Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Xylenes (total)	5000	5400		50	108	58-128	06/10/2014 0028
Surrogate							
	Q	% Rec	Acceptance Limit				
Bromofluorobenzene	94	47-138					
1,2-Dichloroethane-d4	109	53-142					
Toluene-d8	109	68-124					

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ48685-003  
 Batch: 48685  
 Analytical Method: 8260B

Matrix: Solid  
 Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Xylenes (total)	5000	5000		50	101	7.3	58-128	20	06/10/2014 0051
Surrogate									
	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	92	47-138							
1,2-Dichloroethane-d4	107	53-142							
Toluene-d8	104	68-124							

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL

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**

### Semivolatile Organic Compounds by GC/MS - MB

**Sample ID:** PQ48634-001      **Matrix:** Solid  
**Batch:** 48634      **Prep Method:** 3550C  
**Analytical Method:** 8270D      **Prep Date:** 06/10/2014 1441

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acenaphthene	ND			330	10	ug/Kg	06/11/2014 0908
Acenaphthylene	ND			330	13	ug/Kg	06/11/2014 0908
Anthracene	ND			330	15	ug/Kg	06/11/2014 0908
Benzo(a)anthracene	ND			330	11	ug/Kg	06/11/2014 0908
Benzo(a)pyrene	ND			330	24	ug/Kg	06/11/2014 0908
Benzo(b)fluoranthene	ND			330	22	ug/Kg	06/11/2014 0908
Benzo(g,h,i)perylene	ND			330	23	ug/Kg	06/11/2014 0908
Benzo(k)fluoranthene	ND			330	27	ug/Kg	06/11/2014 0908
Chrysene	ND			330	10	ug/Kg	06/11/2014 0908
Dibenz(a,h)anthracene	ND			330	22	ug/Kg	06/11/2014 0908
Fluoranthene	ND			330	10	ug/Kg	06/11/2014 0908
Fluorene	ND			330	13	ug/Kg	06/11/2014 0908
Indeno(1,2,3-c,d)pyrene	ND			330	30	ug/Kg	06/11/2014 0908
Naphthalene	ND			330	14	ug/Kg	06/11/2014 0908
Phenanthrene	ND			330	13	ug/Kg	06/11/2014 0908
Pyrene	ND			330	14	ug/Kg	06/11/2014 0908
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>			<b>Acceptance Limit</b>		
2-Fluorobiphenyl	82	82			33-102		
Nitrobenzene-d5	88	88			22-109		
Terphenyl-d14	101	101			41-120		

### Semivolatile Organic Compounds by GC/MS - LCS

**Sample ID:** PQ48634-002      **Matrix:** Solid  
**Batch:** 48634      **Prep Method:** 3550C  
**Analytical Method:** 8270D      **Prep Date:** 06/10/2014 1441

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	3300	2800		1	84	46-114	06/11/2014 0931
Acenaphthylene	3300	3100		1	92	44-122	06/11/2014 0931
Anthracene	3300	2700		1	81	50-119	06/11/2014 0931
Benzo(a)anthracene	3300	2500		1	74	47-121	06/11/2014 0931
Benzo(a)pyrene	3300	2700		1	81	55-134	06/11/2014 0931
Benzo(b)fluoranthene	3300	2700		1	80	28-139	06/11/2014 0931
Benzo(g,h,i)perylene	3300	2100		1	64	36-125	06/11/2014 0931
Benzo(k)fluoranthene	3300	2800		1	83	47-130	06/11/2014 0931
Chrysene	3300	2300		1	70	45-126	06/11/2014 0931
Dibenz(a,h)anthracene	3300	2500		1	75	45-122	06/11/2014 0931

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 MDL      J = Estimated result < PQL and ≥ MDL      + = RPD is out of criteria

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

# Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: PQ48634-002  
 Batch: 48634  
 Analytical Method: 8270D

Matrix: Solid  
 Prep Method: 3550C  
 Prep Date: 06/10/2014 1441

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Fluoranthene	3300	2500		1	76	50-123	06/11/2014 0931
Fluorene	3300	2700		1	81	48-117	06/11/2014 0931
Indeno(1,2,3-c,d)pyrene	3300	2400		1	72	45-123	06/11/2014 0931
Naphthalene	3300	2300		1	68	36-110	06/11/2014 0931
Phenanthrene	3300	2600		1	78	49-117	06/11/2014 0931
Pyrene	3300	2500		1	74	47-119	06/11/2014 0931
<b>Surrogate</b>			<b>Q</b>		<b>% Rec</b>	<b>Acceptance Limit</b>	
2-Fluorobiphenyl			72			33-102	
Nitrobenzene-d5			87			22-109	
Terphenyl-d14			91			41-120	

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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: PQ48363-001 Matrix: Solid  
 Batch: 48363 Prep Method: 3050B  
 Analytical Method: 6010C Prep Date: 06/06/2014 1036

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Lead	ND		1	0.50	0.093	mg/kg	06/10/2014 0211

**ICP-AES - LCS**

Sample ID: PQ48363-002 Matrix: Solid  
 Batch: 48363 Prep Method: 3050B  
 Analytical Method: 6010C Prep Date: 06/06/2014 1036

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	240	240		1	99	80-120	06/10/2014 0215

**ICP-AES - LCSD**

Sample ID: PQ48363-003 Matrix: Solid  
 Batch: 48363 Prep Method: 3050B  
 Analytical Method: 6010C Prep Date: 06/06/2014 1036

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	250	240		1	96	1.7	80-120	20	06/10/2014 0219

**ICP-AES - MS**

Sample ID: PFO5024-001MS Matrix: Solid  
 Batch: 48363 Prep Method: 3050B  
 Analytical Method: 6010C Prep Date: 06/06/2014 1036

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	6.6	230	240		1	102	75-125	06/10/2014 0228

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

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: PF05024-001MD Matrix: Solid  
 Batch: 48363 Prep Method: 3050B  
 Analytical Method: 6010C Prep Date: 06/06/2014 1036

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	6.6	220	220	1	99	6.4	75-125	20	06/10/2014 0230	

ICP-AES - MS

Sample ID: PF05024-002MS Matrix: Solid  
 Batch: 48363 Prep Method: 3050B  
 Analytical Method: 6010C Prep Date: 06/06/2014 1036

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	11	350	360	1	1	98	75-125	20	06/10/2014 0241	

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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 Record

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealyenv.com

Number 18814

Form containing client information (Client: MELI, Address: 231 Dooly Road, Lexington, SC), report contact (B. Shayne), sampler (Patrick Boylan), project name (Burnetts Service Station), and a table of samples with analysis results for parameters like BITX, PAH, and Total Lead.



SHEALY ENVIRONMENTAL SERVICES, INC.

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: 15-AD-016  
 Revision Number: 14

Page 1 of 1  
 Revision Date: 05/26/15  
 Effective Date: 05/26/15

## Sample Receipt Checklist (SRC)

Client: Worcester Cooler Inspected by/date: Walter J. Adkins Lot #: PK-51-74

Means of receipt: <input type="checkbox"/> STSI <input type="checkbox"/> Client <input type="checkbox"/> EPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other	
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/derived (corrected) temperature upon receipt: <u>122/75/72/65</u> °C / <u>7</u> / <u>7</u> / <u>7</u> °C	
Method: <input type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles <input type="checkbox"/> IR Gun ID: #3 <input type="checkbox"/> IR Gun Correction Factor: <u>1.1</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Is the commercial courier's packing slip attached to this form?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	6. Were samples relinquished by client to commercial courier?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	7. Were sample IDs listed on all sample containers?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	8. Was collection date & time listed on all sample containers?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	9. Was collection date & time listed on all sample containers?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	10. Did all container label information (ID, date, time) agree with the COC?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	11. Were tests to be performed listed on the COC?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	12. Did all samples arrive in the proper containers for each test?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	13. Did all containers arrive in good condition (undamaged, jibs on, etc.)?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	14. Was adequate sample volume available?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	15. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	16. Were any samples containers missing?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	17. Were there any excess samples not listed on COC?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	18. Were bubbles present > "pea-size" (1/2" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	20. Were all cyanide and/or sulfide samples received at a pH > 12?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	22. Were collection temperatures documented on the COC for NG samples?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	24. Was the quote number used taken from the container label?
<b>Sample Preservation</b> (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 _____ (H2SO4, HNO3, HCl, NaOH) using SR # _____	
Sample(s) _____ were received with bubbles >6 mm in diameter.	
Sample(s) _____ were received with TRC >1.2 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: _____ Verified by: _____ Date: 05/19/14	
Comments: _____	

**SHEALY ENVIRONMENTAL SERVICES, INC.**

**Report of Analysis**

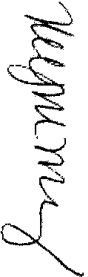
**Midlands Environmental Consultants, Inc.**  
235 Dooley Rd  
Lexington, SC 29073  
Attention: Bryan Shane

Project Name: Burnettes Service Center

Project Number: 14-4757

Lot Number: PF18047

Date Completed: 06/25/2014

  
Kelly M. Maberry  
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.  
The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

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# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## Case Narrative

**Midlands Environmental Consultants, Inc.**

**Lot Number: PF18047**

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.

### Sample Receiving

Samples -001, -002 and -003 for volatiles analysis contained vials with air bubbles greater than 1/4" or 6mm in diameter. The laboratory uses these vials for screening and the vials without bubbles for analysis whenever possible. Condition of samples is documented on the Sample Receipt Checklist (SRC).

### GC/MS Semivolatiles

The MS/MSD associated with sample -001 had several compounds 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.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Midlands Environmental Consultants, Inc.

Lot Number: PF18047

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	06/17/2014 1437	06/18/2014
002	WSW-1	Aqueous	06/17/2014 1451	06/18/2014
003	MW-1 Dup.	Aqueous	06/17/2014 1437	06/18/2014
004	Field Blank	Aqueous	06/17/2014 1455	06/18/2014
005	Trip Blank	Aqueous	06/17/2014 1456	06/18/2014

(5 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Midlands Environmental Consultants, Inc.

Lot Number: PF18047

Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001 MW-1	Aqueous	Benzene	8260B	470		ug/L	5
001 MW-1	Aqueous	1,2-Dichloroethane	8260B	11	J	ug/L	5
001 MW-1	Aqueous	Ethylbenzene	8260B	420		ug/L	5
001 MW-1	Aqueous	Naphthalene	8260B	940		ug/L	5
001 MW-1	Aqueous	Toluene	8260B	1700		ug/L	5
001 MW-1	Aqueous	Xylenes (total)	8260B	760		ug/L	5
001 MW-1	Aqueous	Naphthalene	8270D	680		ug/L	5
001 MW-1	Aqueous	Dissolved Lead	6020A	12		ug/L	6
003 MW-1 Dup.	Aqueous	Benzene	8260B	440		ug/L	8
003 MW-1 Dup.	Aqueous	Ethylbenzene	8260B	390		ug/L	8
003 MW-1 Dup.	Aqueous	Naphthalene	8260B	1000		ug/L	8
003 MW-1 Dup.	Aqueous	Toluene	8260B	2200		ug/L	8
003 MW-1 Dup.	Aqueous	Xylenes (total)	8260B	860		ug/L	8
003 MW-1 Dup.	Aqueous	Naphthalene	8270D	700		ug/L	8
003 MW-1 Dup.	Aqueous	Dissolved Lead	6020A	0.44	J	ug/L	9

(15 detections)

**Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	06/23/2014 1721	EH1		49591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	470		100	4.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	11	J	100	6.0	ug/L	1
Ethanol	64-17-5	8260B	ND		2000	660	ug/L	1
Ethylbenzene	100-41-4	8260B	420		100	34	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1
Naphthalene	91-20-3	8260B	940		100	34	ug/L	1
Toluene	108-88-3	8260B	1700		100	34	ug/L	1
Xylenes (total)	1330-20-7	8260B	760		100	34	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	96		70-130
Bromofluorobenzene	108		70-130
Toluene-d8	94		70-130

**Semivolatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	06/20/2014 1920	RBH	06/19/2014 1845	49435
2	3520C	8270D	10	06/23/2014 1712	RBH	06/19/2014 1845	49435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		5.0	1.2	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		5.0	1.2	ug/L	1
Anthracene	120-12-7	8270D	ND		5.0	1.1	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		5.0	0.60	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		5.0	0.60	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		5.0	0.60	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		5.0	0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		5.0	1.0	ug/L	1
Chrysene	218-01-9	8270D	ND		5.0	0.70	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		5.0	1.3	ug/L	1
Fluoranthene	206-44-0	8270D	ND		5.0	1.4	ug/L	1
Fluorene	86-73-7	8270D	ND		5.0	1.4	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		5.0	2.3	ug/L	1
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8270D</b>	<b>680</b>		<b>50</b>	<b>13</b>	<b>ug/L</b>	<b>2</b>
Phenanthrene	85-01-8	8270D	ND		5.0	1.2	ug/L	1
Pyrene	129-00-0	8270D	ND		5.0	3.1	ug/L	1

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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  
 F = Quantification of compound exceeded the calibration range  
 H = Out of holding time  
 P = The RPD between two GC columns exceeds 40%  
 N = Recovery is out of criteria

Client: **Midlands Environmental Consultants, Inc.** Laboratory ID: **PF18047-001**  
 Description: **MW-1** Matrix: **Aqueous**  
 Date Sampled: **06/17/2014 1437**  
 Date Received: **06/18/2014**

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
2-Fluorobiphenyl	78	37-129	85	37-129
Nitrobenzene-d5	73	38-127	92	38-127
Terphenyl-d14	18	10-148	19	10-148

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	06/24/2014	MEM	06/23/2014	1539 49652

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

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

**ICP-MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	06/24/2014	2031	06/23/2014	1606 49641

Parameter	CAS	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Lead	7439-92-1	6020A	12		1.0	0.047	ug/L	1

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	50308	82608	1	06/21/2014 0652	PMM2		49537	
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	82608	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	82608	ND		10	0.20	ug/L	1
Benzene	71-43-2	82608	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	782-75-4	82608	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	82608	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	82608	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	82608	ND		100	1.0	ug/L	1
Ethanol	64-17-5	82608	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	82608	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	82608	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	82608	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	82608	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	82608	ND		100	6.7	ug/L	1
Toluene	108-88-3	82608	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	82608	ND		1.0	0.33	ug/L	1

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	8011	8011	1	06/24/2014 1035	MEM	06/23/2014 1539	49652	
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate				Q	Run 1 % Recovery	Acceptance Limits		
1,1,1,2-Tetrachloroethane				77		57-137		

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

Client: Midlands Environmental Consultants, Inc.  
 Description: MW-1 Dup.  
 Date Sampled: 06/17/2014 1437  
 Date Received: 06/18/2014

Laboratory ID: PF-18047-003  
 Matrix: Aqueous

**Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260B	20	06/23/2014 1744	EHI		49591	
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	440		100	4.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	6.0	ug/L	1
Ethanol	64-17-5	8260B	ND		2000	660	ug/L	1
Ethylbenzene	100-41-4	8260B	390		100	34	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1
Naphthalene	91-20-3	8260B	1000		100	34	ug/L	1
Toluene	108-88-3	8260B	2200		100	34	ug/L	1
Xylenes (total)	1330-20-7	8260B	860		100	34	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4	107		70-130					
Bromofluorobenzene	106		70-130					
Toluene-d8	101		70-130					

**Semivolatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	3520C	8270D	1	06/20/2014 2033	RBH	06/19/2014 1845	49435	
2	3520C	8270D	10	06/23/2014 1736	RBH	06/19/2014 1845	49435	
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270D	ND		5.0	1.2	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		5.0	1.2	ug/L	1
Anthracene	120-12-7	8270D	ND		5.0	1.1	ug/L	1
Benzofluoranthracene	56-55-3	8270D	ND		5.0	0.60	ug/L	1
Benzofluoranthracene	50-32-8	8270D	ND		5.0	0.50	ug/L	1
Benzofluoranthracene	205-99-2	8270D	ND		5.0	0.60	ug/L	1
Benzofluoranthracene	191-24-2	8270D	ND		5.0	0.80	ug/L	1
Benzofluoranthracene	207-08-9	8270D	ND		5.0	1.0	ug/L	1
Chrysene	218-01-9	8270D	ND		5.0	0.70	ug/L	1
Dibenzofluoranthracene	53-70-3	8270D	ND		5.0	1.3	ug/L	1
Fluoranthene	206-44-0	8270D	ND		5.0	1.4	ug/L	1
Fluorene	86-73-7	8270D	ND		5.0	1.4	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		5.0	2.3	ug/L	1
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8270D</b>	<b>700</b>		<b>50</b>	<b>13</b>	<b>ug/L</b>	<b>2</b>
Phenanthrene	85-01-8	8270D	ND		5.0	1.2	ug/L	1
Pyrene	129-00-0	8270D	ND		5.0	3.1	ug/L	1

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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  
 H = Out of holding time  
 P = The RPD between two GC columns exceeds 40%  
 N = Recovery is out of criteria

Client: Midlands Environmental Consultants, Inc. Laboratory ID: PF18047-003  
 Description: MW-1 Dup. Matrix: Aqueous  
 Date Sampled: 06/17/2014 1437  
 Date Received: 06/18/2014

Surrogate	Run 1		Run 2	
	Q % Recovery	Acceptance Limits	Q % Recovery	Acceptance Limits
2-Fluorobiphenyl	74	37-129	79	37-129
Nitrobenzene-d5	72	38-127	89	38-127
Terphenyl-d14	17	10-148	17	10-148

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	06/24/2014 1045	MEM	08/23/2014 1539	49652

**ICP-MS**

Parameter	Number	CAS	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,1,2-Tetrachloroethane	106-93-4	8011	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q	% Recovery	Acceptance Limits						
	89	57-137							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	06/24/2014 2037	CDF	08/23/2014 1606	49641

Parameter	Number	CAS	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dissolved Lead	7439-92-1	6020A	6020A	0.44	J	1.0	0.047	ug/L	1

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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  
 H = Out of holding time  
 P = The RPD between two GC columns exceeds 40%  
 N = Recovery is out of criteria



Client: Midlands Environmental Consultants, Inc.  
 Description: Field Blank  
 Date Sampled: 06/17/2014 1455  
 Date Received: 06/18/2014

Laboratory ID: PF18047-004  
 Matrix: Aqueous

**Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260B	1	06/21/2014 0230	PM2		49537	
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (DPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl-tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-85-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1
Surrogate	Q	% Recovery	Acceptance Limits	Run 1	Acceptance	Run 1	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4	94		70-130					
Bromofluorobenzene	100		70-130					
Toluene-d8	99		70-130					

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	8011	1065-93-4	1	06/24/2014 1056	MEM	06/23/2014 1539	49652	
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	1065-93-4	8011	ND		0.019	0.019	ug/L	1
Surrogate	Q	% Recovery	Acceptance Limits	Run 1	Acceptance	Run 1	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	88		57-137					

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 J = Estimated result < PQL and ≥ MDL  
 E = Quantitation of compound exceeded the calibration range  
 H = Out of holding time  
 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%  
 N = Recovery is out of criteria

Client: Midlands Environmental Consultants, Inc.  
 Description: Trip Blank  
 Date Sampled: 06/17/2014 1456  
 Date Received: 06/18/2014

Laboratory ID: PF-18047-005  
 Matrix: Aqueous

**Volatile Organic Compounds by GC/MS**

Run Prep Method 5030B Analytical Method 8260B Dilution 1 Analysis Date 06/23/2014 1132 Analyst EHI1 Prep Date Batch 49591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (DPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1
<b>Surrogate</b>				<b>Run 1</b>	<b>Acceptance</b>			
				<b>% Recovery</b>	<b>Limits</b>			
1,2-Dichloroethane-d4	98			98	70-130			
Bromofluorobenzene	106			106	70-130			
Toluene-d8	101			101	70-130			

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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  
 H = Out of holding time  
 P = The RPD between two GC columns exceeds 40%  
 N = Recovery is out of criteria

## QC Summary

# Volatile Organic Compounds by GC/MS - MB

**Sample ID:** PQ49537-001      **Matrix:** Aqueous  
**Batch:** 49537      **Prep Method:** 50308  
**Analytical Method:** 82608

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/21/2014 0008
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/21/2014 0008
Benzene	ND		1	5.0	0.20	ug/L	06/21/2014 0008
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/21/2014 0008
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	06/21/2014 0008
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/21/2014 0008
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/21/2014 0008
Ethanol	ND		1	1000	33	ug/L	06/21/2014 0008
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/21/2014 0008
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/21/2014 0008
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/21/2014 0008
Naphthalene	ND		1	5.0	1.7	ug/L	06/21/2014 0008
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/21/2014 0008
Toluene	ND		1	5.0	1.7	ug/L	06/21/2014 0008
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/21/2014 0008
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>		<b>Acceptance Limit</b>			
Bromofluorobenzene	101	99	1	70-130			
1,2-Dichloroethane-d4	99	99	1	70-130			
Toluene-d8	103	103	1	70-130			

## Volatile Organic Compounds by GC/MS - LCS

**Sample ID:** PQ49537-002      **Matrix:** Aqueous  
**Batch:** 49537      **Prep Method:** 50308  
**Analytical Method:** 82608

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	06/20/2014 2233
tert-Amyl methyl ether (TAME)	50	55		1	109	70-130	06/20/2014 2233
Benzene	50	49		1	99	70-130	06/20/2014 2233
tert-Butyl formate (TBF)	250	310		1	123	70-130	06/20/2014 2233
1,2-Dichloroethane	50	51		1	102	70-130	06/20/2014 2233
Diisopropyl ether (IPE)	50	49		1	98	70-130	06/20/2014 2233
3,3-Dimethyl-1-butanol	1000	980		1	98	70-130	06/20/2014 2233
Ethanol	5000	5100		1	102	60-140	06/20/2014 2233
Ethylbenzene	50	48		1	97	70-130	06/20/2014 2233
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	70-130	06/20/2014 2233
Methyl tertiary butyl ether (MTBE)	50	51		1	102	70-130	06/20/2014 2233

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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: PQ49537-002      Matrix: Aqueous  
 Batch: 49537      Prep Method: 5030B  
 Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Naphthalene	50	51		1	102		70-130		06/20/2014 2233
tert-butyl alcohol (TBA)	1000	980		1	98		70-130		06/20/2014 2233
Toluene	50	48		1	95		70-130		06/20/2014 2233
Xylenes (total)	100	100		1	100		70-130		06/20/2014 2233
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	104		70-130						
1,2-Dichloroethane-d4	98		70-130						
Toluene-d8	99		70-130						

**Volatile Organic Compounds by GC/MS - LCSD**

Sample ID: PQ49537-003      Matrix: Aqueous  
 Batch: 49537      Prep Method: 5030B  
 Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	970		1	97	1.1	70-130	20	06/20/2014 2257
tert-Amyl methyl ether (TAME)	50	55		1	111	1.3	70-130	20	06/20/2014 2257
Benzene	50	50		1	99	0.37	70-130	20	06/20/2014 2257
tert-Butyl formate (TBF)	250	310		1	123	0.45	70-130	20	06/20/2014 2257
1,2-Dichloroethane	50	50		1	100	1.7	70-130	20	06/20/2014 2257
Diisopropyl ether (DPE)	50	49		1	99	0.24	70-130	20	06/20/2014 2257
3,3-Dimethyl-1-butanol	1000	950		1	95	3.2	70-130	20	06/20/2014 2257
Ethanol	5000	4900		1	97	4.6	60-140	20	06/20/2014 2257
Ethylbenzene	50	49		1	98	1.9	70-130	20	06/20/2014 2257
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	0.19	70-130	20	06/20/2014 2257
Methyl tertiary butyl ether (MTBE)	50	54		1	108	5.5	70-130	20	06/20/2014 2257
Naphthalene	50	50		1	99	3.0	70-130	20	06/20/2014 2257
tert-butyl alcohol (TBA)	1000	970		1	97	0.89	70-130	20	06/20/2014 2257
Toluene	50	49		1	99	3.7	70-130	20	06/20/2014 2257
Xylenes (total)	100	100		1	101	1.1	70-130	20	06/20/2014 2257
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	103		70-130						
1,2-Dichloroethane-d4	95		70-130						
Toluene-d8	101		70-130						

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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 - MB

Sample ID: PQ49537-001  
 Batch: 49537  
 Analytical Method: 8260B

Matrix: Aqueous  
 Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/21/2014 0008
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/21/2014 0008
Benzene	ND		1	1.0	0.13	ug/L	06/21/2014 0008
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/21/2014 0008
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	06/21/2014 0008
Diisopropyl ether (DPE)	ND		1	10	0.40	ug/L	06/21/2014 0008
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/21/2014 0008
Ethanol	ND		1	1000	33	ug/L	06/21/2014 0008
Ethylbenzene	ND		1	1.0	0.33	ug/L	06/21/2014 0008
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/21/2014 0008
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	06/21/2014 0008
Naphthalene	ND		1	1.0	0.40	ug/L	06/21/2014 0008
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/21/2014 0008
Toluene	ND		1	1.0	0.33	ug/L	06/21/2014 0008
Xylenes (total)	ND		1	1.0	0.33	ug/L	06/21/2014 0008
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		103	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ49537-002  
 Batch: 49537  
 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	06/20/2014 2233
tert-Amyl methyl ether (TAME)	50	55		1	109	70-130	06/20/2014 2233
Benzene	50	49		1	99	70-130	06/20/2014 2233
tert-Butyl formate (TBF)	250	310		1	123	70-130	06/20/2014 2233
1,2-Dichloroethane	50	51		1	102	70-130	06/20/2014 2233
Diisopropyl ether (DPE)	50	49		1	98	70-130	06/20/2014 2233
3,3-Dimethyl-1-butanol	1000	980		1	98	70-130	06/20/2014 2233
Ethanol	5000	5100		1	102	60-140	06/20/2014 2233
Ethylbenzene	50	48		1	97	70-130	06/20/2014 2233
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	70-130	06/20/2014 2233
Methyl tertiary butyl ether (MTBE)	50	51		1	102	70-130	06/20/2014 2233

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL

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: PQ49537-002  
 Batch: 49537  
 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	51		1	102	70-130	06/20/2014 2233
tert-butyl alcohol (TBA)	1000	980		1	98	70-130	06/20/2014 2233
Toluene	50	48		1	95	70-130	06/20/2014 2233
Xylenes (total)	100	100		1	100	70-130	06/20/2014 2233
Surrogate							
	Q	% Rec	Acceptance Limit				
Bromofluorobenzene	104		70-130				
1,2-Dichloroethane-d4	98		70-130				
Toluene-d8	99		70-130				

### Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ49537-003  
 Batch: 49537  
 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	970		1	97	1.1	70-130	20	06/20/2014 2257
tert-Amyl methyl ether (TAME)	50	55		1	111	1.3	70-130	20	06/20/2014 2257
Benzene	50	50		1	99	0.37	70-130	20	06/20/2014 2257
tert-Butyl formate (TBF)	250	310		1	123	0.45	70-130	20	06/20/2014 2257
1,2-Dichloroethane	50	50		1	100	1.7	70-130	20	06/20/2014 2257
Diisopropyl ether (DPE)	50	49		1	99	0.24	70-130	20	06/20/2014 2257
3,3-Dimethyl-1-butanol	1000	950		1	95	3.2	70-130	20	06/20/2014 2257
Ethanol	5000	4900		1	97	4.6	60-140	20	06/20/2014 2257
Ethylbenzene	50	49		1	98	1.9	70-130	20	06/20/2014 2257
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	0.19	70-130	20	06/20/2014 2257
Methyl tertiary butyl ether (MTBE)	50	54		1	108	5.5	70-130	20	06/20/2014 2257
Naphthalene	50	50		1	99	3.0	70-130	20	06/20/2014 2257
tert-butyl alcohol (TBA)	1000	970		1	97	0.89	70-130	20	06/20/2014 2257
Toluene	50	49		1	99	3.7	70-130	20	06/20/2014 2257
Xylenes (total)	100	100		1	101	1.1	70-130	20	06/20/2014 2257
Surrogate									
	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	103		70-130						
1,2-Dichloroethane-d4	95		70-130						
Toluene-d8	101		70-130						

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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: PQ49591-001  
Batch: 49591  
Analytical Method: 8260B

Matrix: Aqueous  
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/23/2014 1046
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/23/2014 1046
Benzene	ND		1	5.0	0.20	ug/L	06/23/2014 1046
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/23/2014 1046
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	06/23/2014 1046
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/23/2014 1046
3,3-Dimethyl-1-butanol	1.0	J	1	100	1.0	ug/L	06/23/2014 1046
Ethanol	ND		1	100	33	ug/L	06/23/2014 1046
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/23/2014 1046
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/23/2014 1046
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/23/2014 1046
Naphthalene	ND		1	5.0	1.7	ug/L	06/23/2014 1046
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/23/2014 1046
Toluene	ND		1	5.0	1.7	ug/L	06/23/2014 1046
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/23/2014 1046
Surrogate	Q	% Rec			Acceptance Limit		
Bromofluorobenzene	105				70-130		
1,2-Dichloroethane-d4	98				70-130		
Toluene-d8	101				70-130		

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ49591-002  
Batch: 49591  
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	104	70-130	06/23/2014 0918
tert-Amyl methyl ether (TAME)	50	52		1	104	70-130	06/23/2014 0918
Benzene	50	48		1	95	70-130	06/23/2014 0918
tert-Butyl formate (TBF)	250	260		1	106	70-130	06/23/2014 0918
1,2-Dichloroethane	50	50		1	100	70-130	06/23/2014 0918
Diisopropyl ether (IPE)	50	48		1	95	70-130	06/23/2014 0918
3,3-Dimethyl-1-butanol	1000	1000		1	101	70-130	06/23/2014 0918
Ethanol	5000	5300		1	106	60-140	06/23/2014 0918
Ethylbenzene	50	48		1	96	70-130	06/23/2014 0918
Ethyl-tert-butyl ether (ETBE)	50	46		1	91	70-130	06/23/2014 0918
Methyl tertiary butyl ether (MTBE)	50	48		1	96	70-130	06/23/2014 0918

PQL = Practical quantitation limit  
ND = Not detected at or above the MDL

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: PQ49591-002  
 Batch: 49591  
 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
Naphthalene	50	59		1	119		70-130		06/23/2014 0918
tert-butyl alcohol (TBA)	1000	1100		1	106		70-130		06/23/2014 0918
Toluene	50	47		1	94		70-130		06/23/2014 0918
Xylenes (total)	100	99		1	99		70-130		06/23/2014 0918
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	104		70-130						
1,2-Dichloroethane-d4	100		70-130						
Toluene-d8	98		70-130						

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ49591-003  
 Batch: 49591  
 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	105	0.25	70-130	20	06/23/2014 0939
tert-Amyl methyl ether (TAME)	50	52		1	104	0.28	70-130	20	06/23/2014 0939
Benzene	50	47		1	94	1.5	70-130	20	06/23/2014 0939
tert-Butyl formate (TBF)	250	260		1	104	1.4	70-130	20	06/23/2014 0939
1,2-Dichloroethane	50	50		1	99	0.50	70-130	20	06/23/2014 0939
Diisopropyl ether (DPE)	50	47		1	93	1.9	70-130	20	06/23/2014 0939
3,3-Dimethyl-1-butanol	1000	1000		1	102	0.93	70-130	20	06/23/2014 0939
Ethanol	5000	5100		1	102	4.0	60-140	20	06/23/2014 0939
Ethylbenzene	50	48		1	96	0.94	70-130	20	06/23/2014 0939
Ethyl-tert-butyl ether (ETBE)	50	45		1	89	1.9	70-130	20	06/23/2014 0939
Methyl tertiary butyl ether (MTBE)	50	48		1	96	0.19	70-130	20	06/23/2014 0939
Naphthalene	50	63		1	126	5.7	70-130	20	06/23/2014 0939
tert-butyl alcohol (TBA)	1000	1100		1	105	0.35	70-130	20	06/23/2014 0939
Toluene	50	47		1	93	0.19	70-130	20	06/23/2014 0939
Xylenes (total)	100	97		1	97	2.1	70-130	20	06/23/2014 0939
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	104		70-130						
1,2-Dichloroethane-d4	101		70-130						
Toluene-d8	101		70-130						

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL

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**

## Semivolatile Organic Compounds by GC/MS - MB

**Sample ID:** PQ49435-001      **Matrix:** Aqueous  
**Batch:** 49435      **Prep Method:** 3520C  
**Analytical Method:** 8270D      **Prep Date:** 06/19/2014 1845

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Acenaphthene	ND		1	5.0	1.2	ug/L	06/20/2014 1719
Acenaphthylene	ND		1	5.0	1.2	ug/L	06/20/2014 1719
Anthracene	ND		1	5.0	1.1	ug/L	06/20/2014 1719
Benzo(a)anthracene	ND		1	5.0	0.80	ug/L	06/20/2014 1719
Benzo(a)pyrene	ND		1	5.0	0.50	ug/L	06/20/2014 1719
Benzo(b)fluoranthene	ND		1	5.0	0.80	ug/L	06/20/2014 1719
Benzo(g,h,i)perylene	ND		1	5.0	1.0	ug/L	06/20/2014 1719
Benzo(k)fluoranthene	ND		1	5.0	0.70	ug/L	06/20/2014 1719
Chrysene	ND		1	5.0	1.3	ug/L	06/20/2014 1719
Dibenzo(a,h)anthracene	ND		1	5.0	1.4	ug/L	06/20/2014 1719
Fluorene	ND		1	5.0	1.4	ug/L	06/20/2014 1719
Indeno(1,2,3-c,d)pyrene	ND		1	5.0	2.3	ug/L	06/20/2014 1719
Naphthalene	ND		1	5.0	1.3	ug/L	06/20/2014 1719
Phenanthrene	ND		1	5.0	1.2	ug/L	06/20/2014 1719
Pyrene	ND		1	5.0	3.1	ug/L	06/20/2014 1719
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>		<b>Acceptance Limit</b>			
2-Fluorobiphenyl		92		37-129			
Nitrobenzene-d5		88		38-127			
Terphenyl-d14		104		10-148			

## Semivolatile Organic Compounds by GC/MS - LCS

**Sample ID:** PQ49435-002      **Matrix:** Aqueous  
**Batch:** 49435      **Prep Method:** 3520C  
**Analytical Method:** 8270D      **Prep Date:** 06/19/2014 1845

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	100	75		1	75	30-130	06/20/2014 1743
Acenaphthylene	100	110		1	114	30-130	06/20/2014 1743
Anthracene	100	93		1	93	30-130	06/20/2014 1743
Benzo(a)anthracene	100	87		1	87	30-130	06/20/2014 1743
Benzo(a)pyrene	100	85		1	85	30-130	06/20/2014 1743
Benzo(b)fluoranthene	100	86		1	86	30-130	06/20/2014 1743
Benzo(g,h,i)perylene	100	82		1	82	30-130	06/20/2014 1743
Benzo(k)fluoranthene	100	88		1	88	30-130	06/20/2014 1743
Chrysene	100	85		1	85	30-130	06/20/2014 1743
Dibenzo(a,h)anthracene	100	84		1	84	30-130	06/20/2014 1743

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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%      N = Recovery is out of criteria  
 J = Estimated result < PQL and ≥ MDL      + = RPD is out of criteria

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

# Semivolatile Organic Compounds by GC/MS - LCS

**Sample ID:** PC49435-002      **Matrix:** Aqueous  
**Batch:** 49435      **Prep Method:** 3520C  
**Analytical Method:** 8270D      **Prep Date:** 06/19/2014 1845

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Fluoranthene	100	92		1	92	30-130	06/20/2014 1743
Fluorene	100	89		1	89	30-130	06/20/2014 1743
Indeno(1,2,3-c,d)pyrene	100	84		1	84	30-130	06/20/2014 1743
Naphthalene	100	85		1	85	30-130	06/20/2014 1743
Phenanthrene	100	89		1	89	30-130	06/20/2014 1743
Pyrene	100	92		1	92	30-130	06/20/2014 1743
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
2-Fluorobiphenyl	92	37-129					
Nitrobenzene-d5	90	38-127					
Terphenyl-d14	99	10-148					

## Semivolatile Organic Compounds by GC/MS - MS

**Sample ID:** PF18047-001MS      **Matrix:** Aqueous  
**Batch:** 49435      **Prep Method:** 3520C  
**Analytical Method:** 8270D      **Prep Date:** 06/19/2014 1845

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	100	60		1	60	30-130	06/20/2014 1945
Acenaphthylene	ND	100	86		1	86	30-130	06/20/2014 1945
Anthracene	ND	100	46		1	46	30-130	06/20/2014 1945
Benzo(a)anthracene	ND	100	30		1	30	30-130	06/20/2014 1945
Benzo(a)pyrene	ND	100	28		1	28	30-130	06/20/2014 1945
Benzo(b)fluoranthene	ND	100	27		1	27	30-130	06/20/2014 1945
Benzo(g,h,i)perylene	ND	100	34		1	34	30-130	06/20/2014 1945
Benzo(k)fluoranthene	ND	100	29		1	29	30-130	06/20/2014 1945
Chrysene	ND	100	28		1	28	30-130	06/20/2014 1945
Dibenz(a,h)anthracene	ND	100	31		1	31	30-130	06/20/2014 1945
Fluoranthene	ND	100	35		1	35	30-130	06/20/2014 1945
Fluorene	ND	100	60		1	60	30-130	06/20/2014 1945
Indeno(1,2,3-c,d)pyrene	ND	100	33		1	33	30-130	06/20/2014 1945
Naphthalene	680	100	210		N	-28	30-130	06/20/2014 1945
Phenanthrene	ND	100	49		1	49	30-130	06/20/2014 1945
Pyrene	ND	100	35		1	35	30-130	06/20/2014 1945

PQL = Practical quantitation limit  
 ND = Not detected at or above the MCL  
 P = The RPD between two GC columns exceeds 40%  
 J = Estimated result < PQL and > MCL  
 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**

# Semivolatile Organic Compounds by GC/MS - MS

**Sample ID:** PF-18047-001MS      **Matrix:** Aqueous  
**Batch:** 49435      **Prep Method:** 3520C  
**Analytical Method:** 8270D      **Prep Date:** 06/19/2014 1845

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl	69		37-129
Nitrobenzene-d5	81		38-127
Terphenyl-d14	11		10-148

## Semivolatile Organic Compounds by GC/MS - MSD

**Sample ID:** PF-18047-001MS      **Matrix:** Aqueous  
**Batch:** 49435      **Prep Method:** 3520C  
**Analytical Method:** 8270D      **Prep Date:** 06/19/2014 1845

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	100	63	1	63	4.2	4.0	30-130	40	06/20/2014 2009
Acenaphthylene	ND	100	90	1	90	4.0	4.0	30-130	40	06/20/2014 2009
Anthracene	ND	100	51	1	51	9.6	3.8	30-130	40	06/20/2014 2009
Benzo(a)anthracene	ND	100	31	1	31	3.8	4.0	30-130	40	06/20/2014 2009
Benzo(a)pyrene	ND	100	30	1	30	4.2	4.0	30-130	40	06/20/2014 2009
Benzo(b)fluoranthene	ND	100	28	1	28	5.0	4.0	30-130	40	06/20/2014 2009
Benzo(g,h,i)perylene	ND	100	34	1	34	0.25	4.0	30-130	40	06/20/2014 2009
Benzo(k)fluoranthene	ND	100	30	1	30	4.3	4.0	30-130	40	06/20/2014 2009
Chrysene	ND	100	29	1	29	3.7	4.0	30-130	40	06/20/2014 2009
Dibenzo(a,h)anthracene	ND	100	32	1	32	2.2	4.0	30-130	40	06/20/2014 2009
Fluoranthene	ND	100	38	1	38	8.2	4.0	30-130	40	06/20/2014 2009
Fluorene	ND	100	64	1	64	5.5	4.0	30-130	40	06/20/2014 2009
Indeno(1,2,3-c,d)pyrene	ND	100	33	1	33	0.76	4.0	30-130	40	06/20/2014 2009
Naphthalene	680	100	210	1	-29	0.63	4.0	30-130	40	06/20/2014 2009
Phenanthrene	ND	100	53	1	53	8.8	4.0	30-130	40	06/20/2014 2009
Pyrene	ND	100	37	1	37	5.4	4.0	30-130	40	06/20/2014 2009
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>							
2-Fluorobiphenyl	69		37-129							
Nitrobenzene-d5	79		38-127							
Terphenyl-d14	13		10-148							

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 MDL      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 - MB

Sample ID: PQ49652-001      Matrix: Aqueous  
 Batch: 49652      Prep Method: 8011  
 Analytical Method: 8011      Prep Date: 06/23/2014 1539

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	06/24/2014 0801
Surrogate	Q % Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane	80			57-137			

### EDB & DBCP by Microextraction - LCS

Sample ID: PQ49652-002      Matrix: Aqueous  
 Batch: 49652      Prep Method: 8011  
 Analytical Method: 8011      Prep Date: 06/23/2014 1539

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.24		1	96	60-140	06/24/2014 0811
Surrogate	Q % Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane	83				57-137		

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 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**

**ICP-MS - MB**

Sample ID: PQ49641-001      Matrix: Aqueous  
 Batch: 49641      Prep Method: 3005A  
 Analytical Method: 6020A      Prep Date: 06/23/2014 1606

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Dissolved Lead	ND		1	1.0	0.047	ug/L	06/24/2014 2015

**ICP-MS - LCS**

Sample ID: PQ49641-002      Matrix: Aqueous  
 Batch: 49641      Prep Method: 3005A  
 Analytical Method: 6020A      Prep Date: 06/23/2014 1606

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Dissolved Lead	100	100		1	103	80-120	06/24/2014 2020

**ICP-MS - LCSD**

Sample ID: PQ49641-003      Matrix: Aqueous  
 Batch: 49641      Prep Method: 3005A  
 Analytical Method: 6020A      Prep Date: 06/23/2014 1606

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Dissolved Lead	100	100		1	102	1.6	80-120	20	06/24/2014 2026

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

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



**Chain of Custody Record**

Shealy Environmental Services, Inc.  
106 Vantage Point Drive  
West Columbia, South Carolina 29172  
Telephone No. (803) 791-9700 Fax No. (803) 791-9111  
www.shealylab.com

Number 19814

Client <b>MELI</b>		Report to Contact <b>B. Shane</b>		Sampler (Printed Name) <b>Daniel McCarthy</b>		Quote No.	
Address <b>231 Doodle Rd.</b>		Telephone No. / Fax No. / Email <b>803-808-2043</b>		Waybill No.		Page <b>1</b> of <b>1</b>	
City <b>Lexington</b>	State <b>SC</b>	Zip Code <b>29073</b>	Preservative 1. HNO3 4. HNO3 7. NaOH 2. NaOH/Na 5. HCl 3. H2SO4 6. Na Thio.		Number of Containers		Boilite (See Instructions on back)
Project Name <b>Barnettes service cont.</b>		Project Number		P.O. Number		Preservative	
Sample ID / Description (Comments for each sample may be combined on one line)		Date	Time	Matrix	Analysis	Barcode <b>PF18047</b>	
<b>mw-1</b>	<b>6/17</b>	<b>14:37</b>	<b>G X</b>		<b>STANAGRAH, MITE</b>	<b>1-2 DCA</b>	<b>Disolved Lead</b>
<b>hw-1</b>	<b>1</b>	<b>14:51</b>	<b>G X</b>			<b>ETANAL</b>	<b>8-ox Y</b>
<b>mw-1 Dup.</b>	<b>1</b>	<b>14:37</b>	<b>G X</b>				<b>EDB</b>
<b>Field Blank</b>	<b>1</b>	<b>14:55</b>	<b>G X</b>				<b>PAH'S</b>
<b>Trip Blank</b>	<b>6/17</b>	<b>14:55</b>	<b>G</b>				
Time Round Time Required (Prior lab approval required for extended TAT)		Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Discard by Lab		QC Requirements (Specify)		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Explosive	
<input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)		Date	Time	1. Received by <b>[Signature]</b>		Date	Time
1. Relinquished by: Sampler <b>Daniel McCarthy</b>		<b>6/17/14</b>	<b>15:31</b>	2. Received by <b>[Signature]</b>		<b>6/17</b>	<b>15:31</b>
2. Relinquished by <b>[Signature]</b>		<b>6/18</b>	<b>14:25</b>	3. Received by <b>[Signature]</b>		<b>6/18/14</b>	<b>14:25</b>
3. Relinquished by		Date	Time	4. Laboratory Received by <b>[Signature]</b>		Date	Time
4. Relinquished by <b>[Signature]</b>		<b>6/18/14</b>	<b>14:50</b>	LAB USE ONLY Revised an Ion (Check <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Pick)		<b>6/18/14</b>	<b>MSD</b>

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

SHEALY ENVIRONMENTAL SERVICES, INC.

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: E-4D-010  
 Revision Number: 14

Page 1 of 1  
 Revision Date: 03/26/15  
 Effective Date: 03/27/15

## Sample Receipt Checklist (SRC)

Client: MVECA

Cooler inspected by/date: DAVID LAMSON / Lot # 52 1/3/2013

Means of receipt:	<input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other	
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
1. Were custody seals present on the cooler?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
2. If custody seals were present, were they intact and unbroken?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Cooler ID/Original temperature upon receipt/Destroyed (circled) temperature upon receipt:		
W6G/VV/VV2/ °C / / °C		
Method:	<input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles <input type="checkbox"/> IR Gun ID: #3 <input type="checkbox"/> IR Gun Correction Factor: 0.1 °C <input type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
Method of coolant:		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? (For coolers received via commercial courier, PMs are to be notified immediately.)		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
4. Is the commercial courier's packing slip attached to this form?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
5. Were proper custody procedures (relinquished/received) followed?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
5a. Were samples relinquished by client to commercial courier?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
6. Were sample IDs listed on the COC?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
7. Were sample IDs listed on all sample containers?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
8. Was collection date & time listed on the COC?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
9. Was collection date & time listed on all sample containers?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
10. Did all container label information (ID, date, time) agree with the COC?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
11. Were tests to be performed listed on the COC?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
12. Did all samples arrive in the proper containers for each test?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
13. Did all containers arrive in good condition (unbroken, lids on, etc.)?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
14. Was adequate sample volume available?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
15. Were all samples received within 1/2 the holding time of 48 hours, whichever comes first?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
16. Were any samples containers missing?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
17. Were there any excess samples not listed on COC?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
18. Were bubbles present > "pea-size" (1/4" or 6mm in diameter) in any VOA vials?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
19. Were all metals/OCC/HEM/nutrient samples received at a pH of <2?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
20. Were all cyanide and/or sulfide samples received at a pH > 12?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
21. Were all applicable NH3/TKN/cyanide/phenol (<0 Zmg/L) samples free of residual chlorine?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
22. Were collection temperatures documented on the COC for TC samples?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
23. Were absent remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
24. Was the quote number used taken from the container label?		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) \_\_\_\_\_ were received incorrectly preserved and were adjusted accordingly in sample receiving with \_\_\_\_\_ (HSSD, JHNO<sub>3</sub>, HCl, NaOH) using SR # \_\_\_\_\_

Sample(s) \_\_\_\_\_ were received with bubbles >6 mm in diameter.

Sample(s) \_\_\_\_\_ were received with TRC >0.2 mg/L. Of #2 is NoI

Sample(s) \_\_\_\_\_ were not returned at a pH of >2 and were adjusted accordingly using SR# \_\_\_\_\_

Sample labels applied by: CC/CSA Verified by: CC/CSA Date: 06/15/13

Comments:

Sample(s) were not returned at a pH of >2 and were adjusted accordingly using SR#



**APPENDIX C:**  
**TAX MAP**  
**(Not Applicable)**

**APPENDIX D:**  
**SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS**  
*(Not Applicable)*

**APPENDIX E:  
WELL COMPLETION LOGS & 1903 FORMS**

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot										
				0	5	10	20	40	60	80	100			
0-5	Asphalt with Stone Base													
5-10	Coastal Plain Sediment: Mottled, Fine Sandy Silty CLAY													
10-15	Black, Silty Fine SAND	586												
15-20	Grey and Green, CLAY													
20-25														
25-30														
30-35														
35-40														
40-45														
45-50														
50-55														
55-60														
60-65														
65-70														
70-75														
75-80														
80-85														
85-90														
90-95														
95-100														
	Boring Terminated at 12.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 12.0 Feet BGS. Groundwater Measured at 3.76 Feet Below Top of Casing on 6-17-2014.	336												

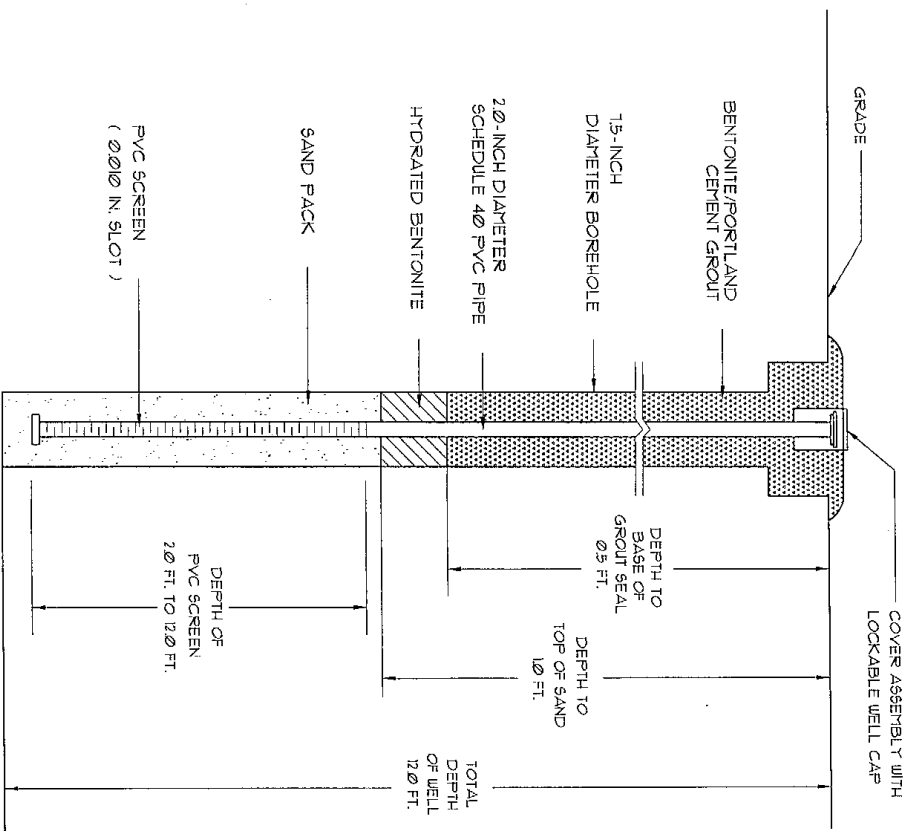
**TEST BORING RECORD**  
 Burnette's Service Station  
 Ridgeland, South Carolina  
 SCDHEC Site ID# 05289  
 MECI Project Number 14-4151

Boring Number:	MW-1 (05289)
Date Drilled:	6/4/2014
Drilled By:	Environmental Drilling & Probing Services
Logged By:	P. Boylan

Prepared By:  
**Midlands Environmental Consultants, Inc.**  
 231 Dooling Road  
 Lexington, South Carolina 29073  
 (803) 568-1043 Fax: 828-7548

# MONITORING WELL INSTALLATION RECORD

Burnette's Service Station  
 Ridgeland, South Carolina  
 SCDHEC Site ID# 05289  
 MECI Project Number 14-4751



Well Number:	MW-1 (05289)
Date Drilled:	6/4/2014
Drilled By:	Environmental Drilling & Probing Services
Driller:	D. Brown S.C. ID# B 02053
Logged By:	P. Boylan

Prepared By:  
**Midlands Environmental Consultants, Inc.**  
 231 Dooling Road  
 Ridgeland, South Carolina 29073  
 (803) 808-1049 fax: 803-204-8



**Water Well Record**  
**Bureau of Water**  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
Name: SCDHEC (last) (first)  
Address: 2600 Bull Street  
City: Columbia State: SC Zip: 29201-1708  
Telephone: Work: (803) 898-4300 Home:

**2. LOCATION OF WELL:** COUNTY: Jasper  
Name: Burnett's Service Station  
Street Address: 11577 Jacob Smart Boulevard  
City: Ridgeland Zip: 29336-9158  
Latitude: Longitude:

**3. PUBLIC SYSTEM NAME:** PUBLIC SYSTEM NUMBER:  
05289 MW-1

**4. ABANDONMENT:**  Yes  No  
Give Details Below  
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Formation Description Thickness of Stratum Depth to Bottom of Stratum  
Asphalt/Stone 0.5 0.5  
Mottles, Sandy Silty CLAY 2.5 3.0  
Black, Silty SAND 3.0 6.0  
Grey/Green, CLAY 6.0 12.0

**7. PERMIT NUMBER:** UMW-25494

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**9. WELL DEPTH (completed):** 12.0 ft.  
Date Started: 6/4/2014  
Date Completed: 6/4/2014

**10. CASING:**  Threaded  Welded  
Diam.: 2 Inch Height: Above/Below  
Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb/ft.  
2.0 in. to 2.0 ft. depth Drive Shoe?  Yes  No  
in. to \_\_\_\_\_ ft. depth

**11. SCREEN:** Type: Schedule 40 PVC Diam.: 2 Inch  
Slot/Gauge: 0.010 Length: 10.0 Feet  
Set Between: 2.0 ft. and 12.0 ft. NOTE: MULTIPLE SCREENS  
Sieve Analysis  Yes (please enclose)  No USE SECOND SHEET

**12. STATIC WATER LEVEL:** 3.76 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 1.0 ft. to 12.0 ft.  
Effective size \_\_\_\_\_ Uniformly Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
Depth: From 0.0 ft. to 0.5 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type \_\_\_\_\_  
Well Disinfected  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Model No.: \_\_\_\_\_ Not installed   
Mfr. Name: \_\_\_\_\_ H.P. \_\_\_\_\_ Volts \_\_\_\_\_ Length of drop pipe \_\_\_\_\_ ft. Capacity \_\_\_\_\_ gpm  
TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** David Brown  
Address: (Print)  
17539 Greenhill Road  
Charlote, North Carolina 28278  
Telephone No.: 704-607-7229 Fax No.: 803-548-2233

**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: *David Brown*  
Well Driller Date: 6/15/14

If D Level Driller, provide supervising driller's name:

Level: A B C D (circle one)

Indicate Water Bearing Zones

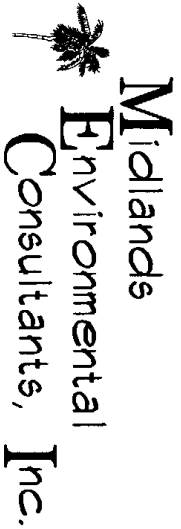
**5. REMARKS:**  
MW-1  
(Use a 2nd sheet if needed)

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**APPENDIX F:**  
**AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS**  
*(Not Applicable)*

**APPENDIX G:  
DISPOSAL MANIFEST**





July 8, 2014

Re: Treatment of Purge Water  
Burnette's Service Station  
Ridgeland, South Carolina  
SCDHEC Site ID Number 05289  
MECI Project Number 14-4757

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.

July 8, 2014

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 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.

**7.0 Gallons were treated on June 4, 2014 during well development.**

**5.0 Gallons were treated on June 17, 2014 during the sampling event.**


**A total of 12.0 Gallons were treated 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 A. Coleman  
Senior Scientist



WASTE MANAGEMENT

Richland County LF  
1047 Highway Church Road  
E19th, SC, 29045  
Ph: (803) 788-3054

Original  
Ticket# 1313649

Customer Name MIDLANDSENVIRON MIDLANDS ENVI Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT Volume

Ticket Date 06/06/2014

Vehicle# 3975

Container

Payment Type Credit Account

Driver

Check#

Manual Ticket#

Billing # 0000469

Gen EPA ID

Hauling Ticket#

Route

State Waste Code

Manifest

Destination

PO

Profile

VA2718 (SOIL FROM UST ASSESSMENT)

Generator

126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

Time

In 06/06/2014 09:12:43 Inbound #2

Scale

ScaleMaster

Gross 15200 lb  
Tare 9120 lb  
Net 6080 lb  
Tons 3.04

Comments

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
1 SOIL-Cont. Soil - 100		3.04	Tons				40-RICHLAN
2 FUEL-Fuel Surcharg 100			%				40-RICHLAN
3 EVF-P-Standard Env 100			%				40-RICHLAN
4 RCR-P-Regulatory C 100			%				40-RICHLAN

Total Fees  
Total Ticket


SIGNATURE *Patrick B. Soper*

*Abandoned Service Station 95%  
Burrhills 5%*

J060004



# SPECIAL WASTE MANIFEST

WASTE ID NUMBER VA2718	<div style="text-align: right;">  <p> <b>Richland Landfill</b>                      1047 Highway Church Road                      Elgin, SC 29045                      Special Waste Phone: 803-744-3345                      Fax: 866-904-7194                 </p> </div>
EXPIRATION DATE December 11, 2016	Prepared by: Sandra Reeves
GENERATOR OF WASTE: MIDLANDS ENV. CONSULTANTS, INC. - VARIOUS ACCOUNT NUMBER:	
CUSTOMER: MIDLANDS ENV. CONSULTANTS, INC. 820-469	
LOCATION OF WASTE:	
CITY: COUNTY:	
PHONE NUMBER: 803-808-2043 CONTACT: LYNN SHANE	
FAX NUMBER: 803-808-2048	
GENERATOR'S SIGNATURE DATE:	
TRANSPORTER OF WASTE: <i>Midlands Environmental Consultants</i>	
DATE: <i>6/6/14</i> TRUCK NUMBER: <i>3975</i>	
DRIVER'S SIGNATURE <i>Rakiah Byles</i>	
**** TO BE COMPLETED BY RICHLAND LANDFILL*****	
DISPOSAL SITE: RICHLAND LANDFILL, ELGIN, SC Waste Class: SOIL	
DESCRIPTION OF WASTE: SOIL FROM UST ASSESSMENT	
TICKET NUMBER: <i>1313699</i> TONNAGE:	
RECEIVED BY: <i>DM</i>	

**APPENDIX H:**  
**LOCAL ZONING REGULATIONS**  
*(Not Applicable)*

**APPENDIX I:**  
**FATE AND TRANSPORT MODELING**  
*(Not Applicable)*

**APPENDIX J:  
ACCESS AGREEMENTS**

RIGHT OF ENTRY - Site ID # 05289

I, W.A. TORRES JR, certify that I am the legal owner/authorized representative for W.A. TORRES, JR (owner) of the property at 721 H. RAY 17 Aidseland. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

One well will be installed at the referenced facility for the purpose of collecting a ground-water quality sample for analysis. I understand that this well will be a permanent fixture of the property until assessment and/or cleanup activities are completed. I understand that these are necessary measures to determine the degree of risk the contamination reportedly existing at this property poses to the general public. Additionally, I understand that SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please Print) : W.A. TORRES, JR  
 SIGNATURE : W.A. TORRES, JR  
 WITNESS : C. J. [Signature]  
 DATE : May Month 16 Day 95 Year

\* David Property Access 3/28/14 \*  
Request SCDHEC Contact him regarding  
Property access.  
Ryan Arvill  
MECI

6661 2 3  
 11/11/11



**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
Eroachment Permit**

Permit No : 169089

Permit Decision Date : 5/14/2014

Expiration Date : 5/14/2015  
7:30:04 AM

Type  
Permit: ENVIRONMENTAL  
Location:

<u>District</u>	<u>Work County</u>	<u>Type</u>	<u>Route</u>	<u>Aux</u>	<u>Begin MP</u>	<u>End MP</u>
	Jasper, SC	S-	32	None	0.092	0.092

Contact Information

Applicant: MidlandsEnvironmentalConsultantsInc      Phone: 8038082043  
Contact: Ryan Atrial  
Address: 231 Doolley Road,  
City: Lexington      State: SC      Zip: 29073

Comments

One (1) groundwater monitoring well will be installed in the SCDOT "Right of Way" out of wheel path alongside North Green St. next to Little "T's" Garage.

Special Provisions:

- 0004 - SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.
- 0104 - ALL VALVES AND MANHOLES SHALL CONFORM TO THE EXISTING ELEVATION OF THE ROADWAY OR SHOULDER AND CONFORM TO THE ACCEPTED STANDARD. THE VALVES WILL BE LOCATED OUT OF THE PAVEMENT. THEY SHALL NOT BE PLACED IN A DITCH FLOW LINE.
- 0105 - ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE SIDE OF THE TRENCH AWAY FROM THE TRAVELED ROADWAY, AND SHALL BE NO CLOSER THAN FIFTEEN (15) FEET TO THE EDGE OF PAVEMENT.
- 0209 - DISTURBED VEGETATION SHALL BE RESEDED ACCORDING TO THE SPECIFICATION FOR HIGHWAY CONSTRUCTION.
- 0312 - THE PERMITTEE SHALL HOLD THE DEPARTMENT HARMLESS FOR DAMAGES TO BOTH UPSTREAM AND DOWNSTREAM PROPERTIES.
- 0315 - TEST WELL SHALL BE LOCATED OUTSIDE OF WHEEL PATH.
- 0317 - THE APPLICANT IS TO PROVIDE ALL THE NECESSARY MAINTENANCE TO THE AREA BEAUTIFIED.
- 0001 - THE ENTIRE WIDTH OF ROAD SHALL BE RESURFACED AS SHOWN ON ATTACHED DOCUMENTATION.

# Application for Encroachment Permit

S.C. Department of Transportation  
Form 637 (Rev. 05/2013)

*Form Use Instructions*

## Contact Information

**Applicant:** Midlands Environmental Consultants, Inc.

**Street:** 231 Doolley Road

**City:** Lexington

**State:** SC  Zip Code: 29073

**Phone:** (803) 808-2043 **Fax:** (803) 808-2048

**Email:** rde@mecli.net

**Contact:** Ryan Anial

## Project Location

**Primary County:** Jasper  **SCDOT Street Finder**

**County:** Jasper  **Road Name:** NORTH GREEN STREET  **Delete**

### 1. Type of Encroachment:

Installation of one (1) groundwater monitoring well for SCDHEC.

ENVIRONMENTAL

### 2. Description of Location:

One (1) groundwater monitoring well will be installed in the SCDOT "Right of Way" out of wheel path alongside North Green St. next to Little "T's" Garage.

(Attach sketch indicating roadway features such as: pavement width, shoulder width, sidewalk and curb and gutter location, significant drainage structure, north arrow, right of way width, and location of the proposed encroachment with respect to the roadway centerline and the nearest intersecting road on the State system.)

### Customer Agreement

3. The undersigned applicant hereby requests the SCDOT to permit encroachment on the SCDOT right of way as described herein. It is expressly understood that the encroachment, if and when constructed, shall be installed in accordance with the sketch attached hereto and made a part hereof. The applicant agrees to comply with and be bound by the SCDOT's "A Policy for Accommodating Utilities on Highways Rights


of  
 way", "Standard Specifications for Highway Construction", the "General Provisions" and "Special Provisions", attached hereto or made a part hereof by reference, during the installation, operation and maintenance of said encroachment within the SCDOT's Right of Way. DISCHARGES OF STORM WATER AND NON-STORM WATER. Work within State Highway right-of-way shall be conducted in compliance with all applicable requirements of the National Pollutant Discharge Elimination System (NPDES) permit(s) issued to the Department of Transportation (Department), to govern the discharge of storm water and non-storm water from its properties. Work shall also be in compliance with all other applicable Federal, State and Local laws and regulations, and with the Department's Encroachment Permits

**Manual and encroachment permit.** The encroachment permit will not be issued until the applicant has received an NPDES construction permit from SC Department of Health and Environmental Control. The applicant agrees to comply with all current SCDOT Standards Specifications for Highway Construction including all Supplemental Technical Specifications. The applicant hereby further agrees, and binds his/hers/its heirs, personal representatives, successors, assigns, to assume any and all liability for accidents or injuries to persons, or damage to property, including the highway, that may be caused by the construction, maintenance, use, moving or removing of the physical appurtenances contemplated herein, and the applicant agrees to indemnify and hold SCDOT harmless from and against any and all claims for personal injury and/or property damage which may be sustained by person by reason of the construction, maintenance or existence of said encroachment on the SCDOT's right of way.

Applicant's Name: Ryan Atrial

(Please print/or type)

Date: 5/9/2014

Applicant's Sig: 

Title: Staff Biologist

For Office Use Only

**For Office Use Only**

In accordance with your request and subject to all the provisions, terms, conditions, and restrictions stated in the application and the general and special provisions attached hereto, the SCDOT hereby approves your application for an encroachment permit. This permit shall become null and void unless the work contemplated herein shall have been completed prior to:

See Attached Special Provision and/or Permit Requirements

NPDES Permit Nbr: \_\_\_\_\_

(Date received by res. Maint. Engr.)

(SCDOT Approval)

(Date)

Resident Maintenance Engineer  
 District Engineering Administrator

Deputy Secretary for Engineering  
 District Maint./Constr. Engineer

General Provisions

**Application for Encroachment Permit**  
**General Provisions**

1. **DEFINITIONS:** The word "Permittee" used herein shall mean the name of the person, firm, or corporation to whom this permit is addressed, his, her, its, heirs, personal representatives, successors and assigns. The word "DEPARTMENT" shall mean the South Carolina Department of Transportation.
2. **NOTICE PRIOR TO STARTING WORK:** Before starting the work contemplated herein within the limits of the highway right of way, the Department's Resident Maintenance Engineer in the county in which the proposed work is located shall be notified 24 hours in advance so that he may be present while the work is under way.
3. **PERMIT SUBJECT TO INSPECTION:** This permit shall be kept at the site of the work at all times while said work is under way and must be shown to any representative of the Department or law enforcement officer on demand.
4. **PROTECTION OF HIGHWAY TRAFFIC:** The applicant shall be responsible for the protection of the highway traffic at all times during the construction, maintenance, removing or moving of the encroachment permitted herein. Detours, barricades, warning signs and flagmen, as necessary, shall be provided by and at the expense of the Permittee and shall be in accordance with the "Manual on Uniform Traffic Control Devices" (MUTCD). The work shall be planned and carried out so that there will be the least possible inconvenience to the motoring public. The Permittee agrees to observe all rules and regulations of the Department while carrying on the work contemplated herein and take all other precautions that circumstances warrant.
5. **STANDARDS OF CONSTRUCTION:** All work shall conform to the Department's standards of construction and shall be performed in a workman-like manner. The applicant shall make adequate provisions for maintaining the proper drainage of the highway as it may be affected by the encroachment permitted herein. All work shall be subject to the supervision and satisfaction of the Department.
6. **FUTURE MOVING OF PHYSICAL APPURTENANCES:** If, in the opinion of the State Highway Engineer, it should ever become necessary to move or remove the physical appurtenances, or any part thereof contemplated herein, on account of change in location of the highway, widening of the highway, or for any other sufficient reason, such moving shall be done on demand of the Department at the expense of the Permittee.
7. **RESTORATION OF HIGHWAY FACILITIES UPON MOVING OR REMOVING OF PHYSICAL APPURTENANCES:** If, and when, the physical appurtenances contemplated herein shall be moved or removed, either on the demand of the Department or at the option of the Permittee, the highway and facilities shall immediately be restored to their original condition at the expense of the Permittee.
8. **COSTS:** All work in connection with the construction, maintenance, moving or removing of the physical appurtenances contemplated herein shall be done by and at the expense of the Permittee.
9. **ADDITIONAL PERMISSIONS:**
  - (a) It is distinctly understood that this permit does not in any way grant or release any rights lawfully possessed by the abutting property owners. The Permittee shall secure any such rights, as necessary, from said abutting property owners.
  - (b) The Permittee shall be responsible for obtaining all other approvals or permits necessary for installation of the encroachment from other government entities.
  - (c) There shall be no excavation of soil nearer than two feet to any public utility line or appurtenant facility except with the consent of the owner thereof, or except upon special permission of this Department after an opportunity to be heard is given the owner of such line or appurtenant facility.

10. ADDITIONAL WORK

PERFORMANCE: (a) All crossings over the highway shall be constructed in accordance with "Specifications for Overhead Crossings of Light and Power Transmission Lines and Telegraph Lines over each other and over Highway Rights of Way in South Carolina," as approved by the Public Service Commission of South Carolina and effective as of date of this permit.

(b) All tunneling, boring, or jacking shall be done in such a way as not to disturb the highway surfacing. (c) No pavement shall be cut unless specifically authorized herein. (d) No excavation shall be nearer than three feet to the edge of pavement unless specifically authorized herein.

(e) Underground facilities will be located at minimum depths as defined in the "Utility Accommodations Manual" for the transmittant, generally as follows: 4 feet minimum for hazardous or dangerous transmittant, 3 feet minimum for other lines. The Department may approve shallower depths if adequate protection is provided. Such approval must be obtained in writing. (f) Service and other small diameter pipes shall be jacked, driven, or otherwise forced underneath the pavements on any surfaced road without disturbing the pavement. The section under the highway pavement and within a distance of three (3) feet on either side shall be continuous without joints.

11. ACCESS:

(a) Permittee is responsible for maintaining reasonable access to private driveways during construction. (b) It is expressly provided that, with respect to any limited access highway, the Permittee shall not have or gain access from the main traveled way of the highway, or the on or off ramps to such facility, except upon approval by the Department.

12. DRIVEWAYS:

(a) The existing crown of the highway shall be continued to the outside shoulder line of the highway. (b) If the driveway or approach is concrete pavement, the pavement shall be constructed at least 6 inches thick and with a minimum of class 2500 concrete. There shall be a bituminous expansion joint, not less than 3/4 inches in thickness, placed between the highway paving and the paving of the approach for the full width of the approach.

13. BEAUTIFICATION:

(a) All trees, plants, flowers, etc. shall be placed in accordance with the provisions specifically stipulated herein. (b) All trees, plants, flowers, etc. shall be maintained by, and at the expense of, the Permittee and the provisions of this permit shall become null and void, if and when said Permittee ceases to maintain said trees, plants, flowers, etc.

14. AS-BUILT PLANS:

(a) The applicant shall provide the Department with survey-quality as-built plans in accordance with the requirements set forth in the Department's "A Policy for Accommodating Utilities on Highway Rights of Way".

**APPENDIX K:  
DATA VERIFICATION CHECKLIST**

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?	X		
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?	X		
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?	X		
17	Has the method of well development been detailed?	X		
18	Has justification been provided for the locations of the monitoring wells?	X		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included?			X
29	Have the exposure pathways been analyzed?			X
30	Have the SSTLs for each compound and pathway been calculated?			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?	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?			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?			X
40	Has the site potentiometric map been provided?			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?	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements?			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?	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?	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		







**UST MANAGEMENT DIVISION  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, SC 29201**

Memorandum:

Date: March 24, 2023  
To: File (Site # 05289 / Cost Agreement # 66245)  
From: Simon Li, Manager *SL*  
Financial Section  
Underground Storage Tank Program  
Subject: Duplicate payments to invoice # 2392384525

The purpose of this memorandum is to provide details that the Accounts Payable paid Pace invoice # 2392384525 twice to site # 05289 and cost agreements # 66245 on March 21, 2023. After discussing with Taylor Cannon (see attachment), we will pay # 2392384521 to the same site as the cost agreement, deducting the amount paid twice of \$331.57. Therefore, we will pay \$1,216.28 (\$1,547.85 minus \$331.57).

Attach: Summary of Costs

cc: Financial File



# INVOICE

Pace Analytical Services, LLC 41-1821617  
Pace Analytical National 62-0814289  
Pace Analytical Gulf Coast 45-4027089

05289 FP

Pace Analytical Services, LLC  
9800 Kinney Ave. Suite 100  
Huntersville, NC 28078  
Phone: (704)875-9092

RECEIVED  
MAR 10 2023  
UST DIVISION

Invoice Number: 2392384521  
Date: 02/27/2023  
Total Amount Due: \$1,547.85

### Sold To:

Arthur Brown  
SCDHEC  
2600 Bull Street  
Columbia, SC 29201  
803-898-0500

### Please Remit To:

Pace Analytical Services, LLC  
P.O. Box 684056  
Chicago, IL 60695-4056



66245

Client Number/Client ID	Purchase Order No	Pace Project Mgr	Terms**	Page
92-615594 / 92-SCDHEC	4600765814	Taylor M Cannon	Net 30 Days	1

Client Project: 5289/66245-BURNETTES SERVICE S

Client Name: SCDHEC

Pace Project No: 92653005

Sample Received: 2/17/2023

Report Sent To: Arthur Brown, SCDHEC

Comments:

### ANALYTICAL CHARGES

Quantity	Unit	Description	Method	Matrix	Price	Total
26	Ea	K.1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	EPA 8260D	Water	\$27.45	\$713.70
5	Ea	K.1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)LL	EPA 8260D	Water	\$27.45	\$137.25
30	Ea	K.7. EDB by EPA 8011	EPA 8011	Water	\$23.23	\$696.90
<b>Analytical Subtotal</b>						<b>\$1,547.85</b>

Total Number of Charges 61

Total Invoice Amount **\$1,547.85**

If paying by credit card, a 2.5% surcharge of \$38.70 will be assessed. PAY \$1,586.55

### Samples Received for analysis:

Lab ID	Client Sample ID	Received
92653005001	MW-2	2/17/2023 9:20:00
92653005002	MW-2D	2/17/2023 9:20:00
92653005003	MW-3	2/17/2023 9:20:00
92653005004	MW-4	2/17/2023 9:20:00
92653005005	MW-5	2/17/2023 9:20:00
92653005006	MW-7	2/17/2023 9:20:00
92653005007	MW-7D	2/17/2023 9:20:00
92653005008	MW-8	2/17/2023 9:20:00
92653005009	MW-9	2/17/2023 9:20:00

PD4600907254-73

A 2.5% CREDIT CARD SURCHARGE OF \$38.70 MAY BE ADDED TO ANY CREDIT CARD PAYMENT. DEBIT AND ACH/E-CHECKS INCUR NO ADDITIONAL FEES.

Page 1 of 2

\*\*1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS OR TERMS OF CONTRACT.

PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.

AN EQUAL OPPORTUNITY EMPLOYER

Please complete and return copy of invoice with your payment.

INVOICE TOTAL **\$1,547.85**

Amount Paid: \$ \_\_\_\_\_

Check No: \_\_\_\_\_

Customer No: 92-615594 Invoice No: 2392384521

Rec. Cost

Tasper  
VERIFIED

5002430596  
Pay \$1,216.28

52

ZBLT Blanket PO 4600907254 Supplier 7000045431 PACE ANALYTICAL Doc. date 08/26/2022

S	Item	A	I	Material	Short Text	PO Quantity	O	C	Delv. Date	Net Price	Curre	Per	O	Matl Group	Pint	Stor. Location	B
1	K				Laboratory Services - US	1.00	EA	D	09/22/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
2	K				65889 site 06946	1,537.20	EA	D	12/06/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
3	K				65915 site 06765	1,879.39	EA	D	12/02/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
4	K				65904 site 05194	597.67	EA	D	10/17/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
5	K				65893 site 06957	1,095.95	EA	D	03/08/2023	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
6	K				66025 site 14541	2,356.92	EA	D	03/15/2023	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
7	K				66042 site 12335	840.54	EA	D	02/09/2023	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
8	K				66044 site 05194	420.27	EA	D	11/29/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
9	K				65908 site 14301	1,562.68	EA	D	01/10/2023	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
10	K				66098 site 15688	210.14	EA	D	11/29/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
11	K				66096 site 11773	210.14	EA	D	11/29/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
12	K				66090 site 07960	4,519.48	EA	D	02/09/2023	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
13	K				66065 site 06209	420.27	EA	D	11/29/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
14	K				65852 site 14564	1,801.25	EA	D	09/08/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	
15	K				65846 site 16009	280.85	EA	D	11/30/2022	1.00	USD	1	EA	Environmen	SC Dpt of Health	Dpt of H& En	

Add Planning

Item 73 [ 73 ] 66245 site 05289

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions Account Assignment Purchase Order History Texts Delivery A

Sh. Text	Mvt	Material Document	Item	Posting Date	Σ Quantity	Delivery cost quantity	OUn	Σ Amt.in loc.cur.	L.Cur	Σ Qty in OPUn	DelCostQty (OPUn)	Order Price Unit	Σ Amount	Cry
WE	101	5002430596	5	03/17/2023	1,879.42	0.00	EA	0.00	USD	1,879.42	0.00	EA	0.00	USD
<b>Tr./Ev. Goods receipt</b>					<b>1,879.42</b>		<b>EA</b>	<b>0.00</b>	<b>USD</b>	<b>1,879.42</b>		<b>EA</b>	<b>0.00</b>	<b>USD</b>
RE-L		5703721505	73	03/21/2023	331.57	0.00	EA	331.57	USD	331.57	0.00	EA	331.57	USD
RE-L		5703721377	73	03/21/2023	331.57	0.00	EA	331.57	USD	331.57	0.00	EA	331.57	USD
<b>Tr./Ev. Invoice receipt</b>					<b>663.14</b>		<b>EA</b>	<b>663.14</b>	<b>USD</b>	<b>663.14</b>		<b>EA</b>	<b>663.14</b>	<b>USD</b>



# INVOICE

Pace Analytical Services, LLC 41-1821617  
Pace Analytical National 62-0814289  
Pace Analytical Gulf Coast 45-4027089

05289  
Pace Analytical Services, LLC  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
Phone: (704)875-9092

AP received 3.21.23

RECEIVED

MAR 10 2023

UST DIVISION

Invoice Number: 2392384525

Date: 02/27/2023

Total Amount Due: \$331.57

Please Remit To:

Pace Analytical Services, LLC  
P.O. Box 684056  
Chicago, IL 60695-4056



**Sold To:**

Arthur Brown  
SCDHEC  
2600 Bull Street  
Columbia, SC 29201  
803-898-0500

CA 116245

Client Number/Client ID	Purchase Order No	Pace Project Mgr	Terms**	Page
92-615594 / 92-SCDHEC	4600765814	Taylor M Cannon	Net 30 Days	1

Client Project: 5289/66245-BURNETTES SERVICE S

Client Name: SCDHEC

Pace Project No: 92652977

Sample Received: 2/17/2023

Report Sent To: Arthur Brown, SCDHEC

Comments:

### ANALYTICAL CHARGES

Quantity	Unit	Description	Method	Matrix	Price	Total
4	Ea	K.14. BTEXNM+1,2 DCA (524.2)	EPA 524.2	Water	\$44.35	\$177.40
4	Ea	K.15.7-OXYGENATES & ETHANOL (8620B)	EPA 8260D	Water	\$21.12	\$84.48
3	Ea	K.16 EDB (504.1)	EPA 504.1	Water	\$23.23	\$69.69
<b>Analytical Subtotal</b>						<b>\$331.57</b>

Total Number of Charges 11

Total Invoice Amount **\$331.57**

If paying by credit card, a 2.5% surcharge of \$8.29 will be assessed; PAY \$339.86

**Samples Received for analysis:**

Lab ID	Client Sample ID	Received
92652977001	WSW-3	2/17/2023 9:20:00
92652977002	WSW-DUP	2/17/2023 9:20:00
92652977003	WSW-FB	2/17/2023 9:20:00
92652977004	WSW-TB	2/17/2023 9:20:00

If you have any questions, please contact Taylor M Cannon at Pace.  
Phone: (704)875-9092 Email: taylor.cannon@pacelabs.com

PO 4600907254-73

**A 2.5% CREDIT CARD SURCHARGE OF \$8.29 MAY BE ADDED TO ANY CREDIT CARD PAYMENT. DEBIT AND ACH/E-CHECKS INCUR NO ADDITIONAL FEES.**

**\*\*1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS OR TERMS OF CONTRACT.**

**PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.**

AN EQUAL OPPORTUNITY EMPLOYER

Please complete and return copy of invoice with your payment.

**INVOICE TOTAL \$331.57**

Amount Paid: \$ \_\_\_\_\_

Check No: \_\_\_\_\_

Customer No: 92-615594 Invoice No: 2392384525

Rec. Cost

FINAL

for VERIFIED

GR 5002430596

**Re: Pace invoice # 2392384525**

Li, Simon &lt;lisw@dhec.sc.gov&gt;

Fri 3/24/2023 8:54 AM

To: Taylor Cannon &lt;Taylor.Cannon@pacelabs.com&gt;

Cc: Taylor, Sherry &lt;taylors@dhec.sc.gov&gt;

Today, we will pay invoice # 2392384521 (\$1,547.85 minus \$331.57 = \$1,216.28). So we both do not need to do anything else except create an internal DHEC memo for audit purposes later.

Thanks

**Simon Li, Manager**  
**Financial & File Management Section,**  
**Underground Storage Tank Management Division,**  
**Bureau of Land and Waste Management,**  
**S.C Department of Health & Environmental Control**  
**Office: (803) 898-0618**  
**Mobile: (803) 667-5703**  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Taylor Cannon <Taylor.Cannon@pacelabs.com>**Sent:** Thursday, March 23, 2023 5:39 PM**To:** Li, Simon <lisw@dhec.sc.gov>**Subject:** RE: Pace invoice # 2392384525

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Hello Simon,

If you offset, would that just cancel the payment due to process tomorrow? If so, let's do that so there is no need for us to issue a credit. If not, I can get a credit issued for one of the payments for this.

Thanks,

---

**Taylor Cannon** (he/him/his)  
**Project Manager** | Carolina Labs  
9800 Kincey Ave., Suite 100, Huntersville, NC 28078  
Office Direct: (704) 977-0943 | Main: (704) 875-9092 | [pacelabs.com](http://pacelabs.com)  
Emergency Response Line: (877) 859-7778  
[taylor.cannon@pacelabs.com](mailto:taylor.cannon@pacelabs.com)



**From:** Li, Simon <lisw@dhec.sc.gov>  
**Sent:** Thursday, March 23, 2023 2:49 PM  
**To:** Taylor Cannon <Taylor.Cannon@pacelabs.com>  
**Subject:** Pace invoice # 2392384525

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon Taylor,

We made a mistake and paid the invoice # 2392384525 twice on 3/21/2023, your company should receive the payment next week. Would you like to process a refund for us or would you like me to offset the amount of invoice # 2392384521 that will process tomorrow?

Sorry for the inconvenience and please let me know what you prefer.

Thanks

**Simon Li, Manager**  
**Financial & File Management Section,**  
**Underground Storage Tank Management Division,**  
**Bureau of Land and Waste Management,**  
**S.C Department of Health & Environmental Control**  
**Office: (803) 898-0618**  
**Mobile: (803) 667-5703**  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



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Please consider the environment before printing this email



Catherine B. Templeton, Director

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

TREVER Z SLACK PG  
PRINCIPAL HYDROGEOLOGIST  
PETRA-TECH ENVIRONMENTAL LLC  
2435 E NORTH ST STE 1108-202  
GREENVILLE SC 29615-1442

JUL 27 2014



Re: Request for Site Specific Work Plan  
Solicitation Number IFB-5400005780/3/20/13-EMW, Purchase Order # 4600271461  
Notice to Proceed

Dear Mr. Slack:

In accordance with the referenced contract, the Underground Storage Tank (UST) Management Division requests a Tier II Assessment for the following four UST facilities to define the geology and the horizontal and vertical extent of petroleum Chemicals of Concern (CoC) both dissolved and free phase product.

Site name	ID #	County	Priority	Project Manager
Sunshine Food Store	03032	Dorchester	3BF	Robert Dunn
Burnette's Service Station	05289	Jasper	2AB	Minda Hornosky
Cooper, William	14929	Charleston	3BD	Robert Dunn
Dan Beach	15025	Charleston	3BD	Robert Dunn

As outlined in the referenced contract, please submit the Site Specific Work Plan, Tier II Assessment Plan, and Assessment Component Cost Agreement to my attention within thirty (30) days from the date of this correspondence. Plan implementation shall not commence prior to receipt of written technical and financial approval from the Agency. The Tier II Reports must be submitted within 90 days subsequent to the date of the approval letter.

Tier II Assessment Plan, Implementation and Report submittal shall be performed in accordance with the referenced contract. Per Section 3.4.3., a late fee of \$100.00/day may be levied for each report submitted after the deadline established in the Notice to Proceed. On all correspondence, please reference the pertinent UST Permit number.

Sincerely,

Stephanie Briney, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Four Notice to Proceed Package (UST Permits 03032, 05289, 14929, and 15025)

cc: Technical Files (without enc.) 03032, 05289, 14929, and 15025



# petra-tech

ENVIRONMENTAL, LLC  
ENGINEERS & CONSULTANTS

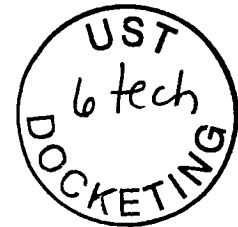
August 20, 2014

SCDHEC - UST Management Division  
Assessment Section  
2600 Bull Street  
Columbia, SC 29201-1708



Attention: Ms. Stephanie Briney

Subject: **Site Specific Work Plan – Tier II Assessment**  
**Revision Number: 0**  
**Burnette's Service Station**  
**11577 N. Jacob Smart Boulevard**  
**Ridgeland, Jasper County, SC**  
**SCDHEC UST Permit #05289**  
**PTE Job No. J14-080-A**



Dear Ms. Briney:

In accordance with Solicitation Number IFB-5400005780/3/20/13-EMW (Purchase Order #4600271461), Petra-Tech Environmental, LLC submits herein the completed Site Specific Work Plan for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) Site Specific Work Plan Directive dated July 24, 2014.

On August 9, 2014, Petra-Tech Environmental personnel performed a site visit to the subject site to locate existing groundwater monitoring wells and conduct a preliminary site reconnaissance. Groundwater at the site is approximately 3 feet below ground surface (i.e. groundwater was measured at 3.03 feet below top of casing in groundwater monitoring well 05289-MW01 on August 9, 2014).

The Site Specific Work Plan is contained herein.

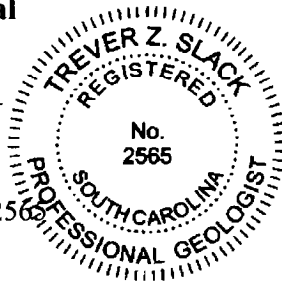
Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

**Petra-Tech Environmental**

Handwritten signature of Trever Z. Slack.

Trever Z. Slack, P.G.  
Principal Hydrogeologist  
Registered, South Carolina #25662





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

To: Minda Homosky (SCDHEC Project Manager)
From: Trever Slack (Contractor Project Manager)
Contractor: Petra-Tech Environmental, LLC UST Contractor Certification Number: UCC-436

Facility Name: Burnette's Service Station UST Permit #: 05289
Facility Address: 11577 N. Jacob Smart Boulevard, Ridgeland, South Carolina 29936
Responsible Party: Fate, Burnette Phone: 803-726-5098
RP Address: PO Box 1908, Ridgeland, SC 29936-0443
Property Owner (if different): H. A. Torres, Jr.
Property Owner Address: 721 North Highway 17, Ridgeland, South Carolina 29936
Current Use of Property: Currently utilized as automotive service and towing company.

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B), Oxygenates (8260B), EDB (8011), PAH (8270D), Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron

Soil:

- BTEXN, PAH, 8 RCRA Metals, Oil & Grease (9071), TPH-DRO (3550B/8015B), TPH-GRO (5030B/8015B), Grain Size, TOC

Air:

- BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

Soil 2, Water Supply Wells, Air 2, Field Blank
19 Monitoring Wells, 2 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: 19 Estimated Footage: 7 (estimated) feet per point
# of deep points proposed: 4 Estimated Footage: 32 (estimated) feet per point
Field Screening Methodology: Direct Push with PID field screening and laboratory confirmation of select samples IAW SOP

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: 13 Estimated Footage: 12 (estimated) feet per point
# of deep wells: 5 Estimated Footage: 37 (estimated) feet per point
# of recovery wells: Estimated Footage: feet per point
Monitoring Well development method (consistent with SOP): Surging and pumping IAW SOP

Comments, if warranted:

Deep wells installed outside of the source area will be installed as Type II monitoring wells if it is determined by the on-site geologist that no confining layers are present.

UST Permit #: 05289 Facility Name: Burnette's Service Station

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 9/20/14 Field Work Completion: 11/20/14  
Report Submittal: 12/20/14 # of Copies Provided to Property Owners: 5

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

Slug test will be completed in two shallow and one deep monitoring well. Slug tests are recommended over pump tests due to the elimination of requirements for petroleum impacted water disposal. Additionally, slug tests minimize the cone of depression associated with pump test drawdown, reducing the transport of petroleum compounds from shallow to deeper aquifer zones.

**Investigation Derived Waste Disposal**

Soil: 5 Tons Purge Water: 200 Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

One existing groundwater monitoring well (05289 - MW01) and 18 newly installed monitoring wells will be sampled.

Receptors identified within 1,000-feet of the site or within 500-feet of the groundwater contaminant plume will be sampled during the Tier II Assessment. Two surface water features and two private water supply wells have been identified within 1,000-feet of the subject site during previous assessments.

**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 ACQAO? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_

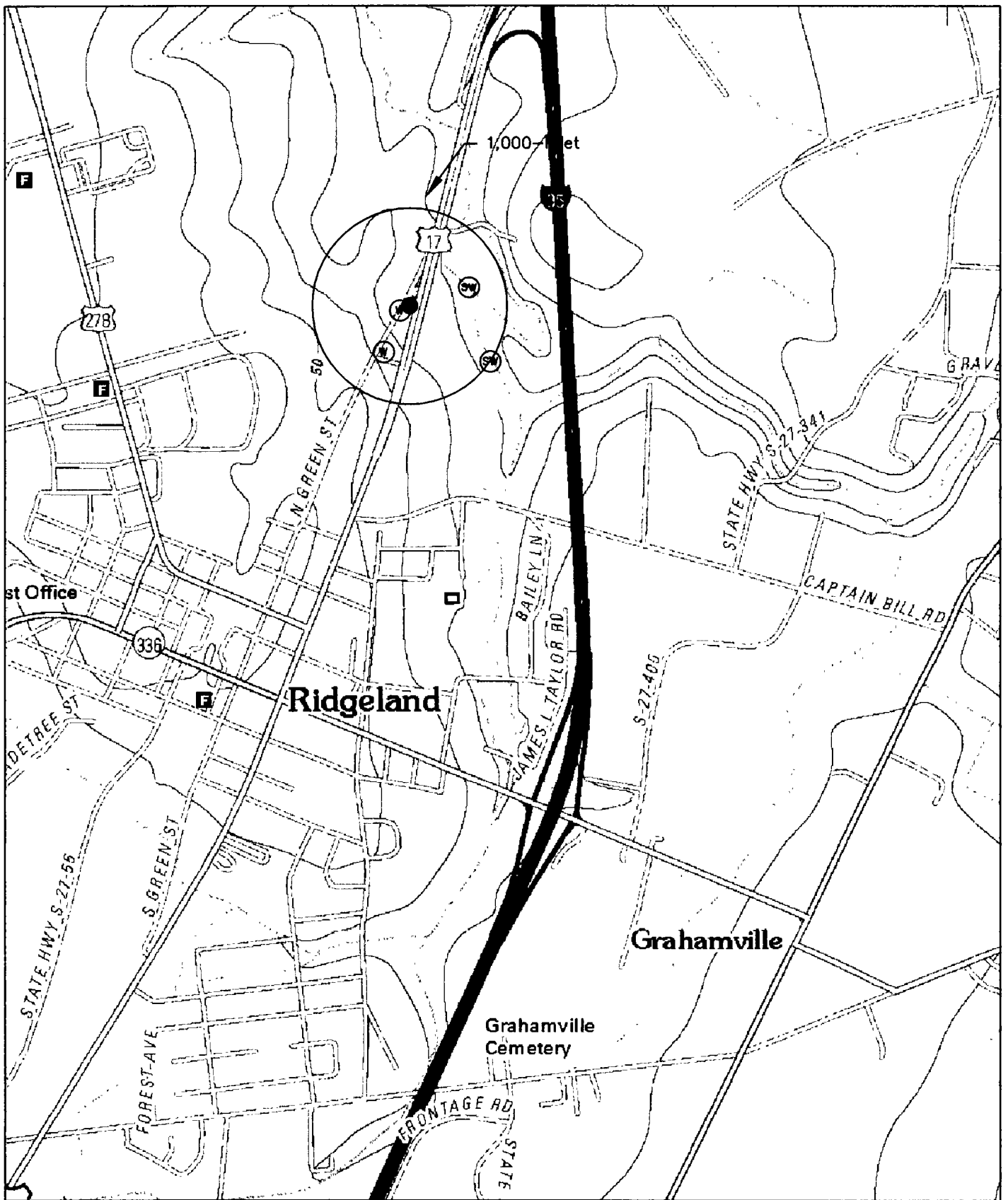
SCLLR Certification Number: \_\_\_\_\_

No Other variations from ACQAP. Please describe below.

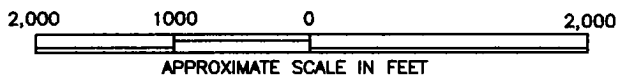
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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



REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



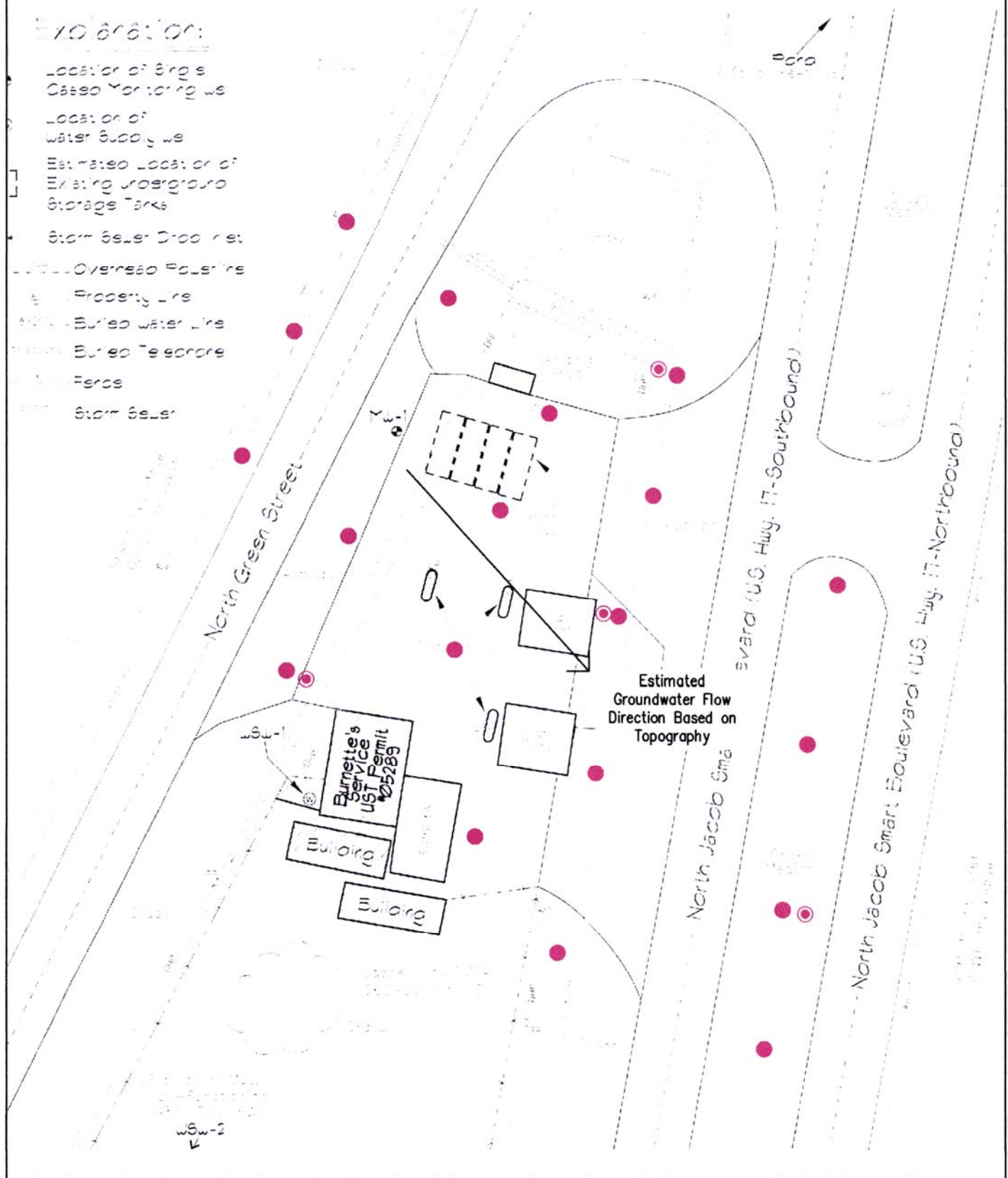
- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ W Private Water Supply Well



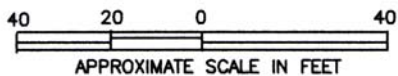
Title	Topographic Site Location Map	
Project	Burnette's Service Station (UST Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	8/20/2014	
Job No.	J14-080-A	
		Figure No. 1

**EXPLANATION:**

- Location of Existing Cased Monitoring Well
- Location of Water Supply Well
- Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Net
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Telephone
- Fence
- Storm Sewer



REFERENCE: Figure 2 Site Map by Midlands Environmental Consultants, Inc.

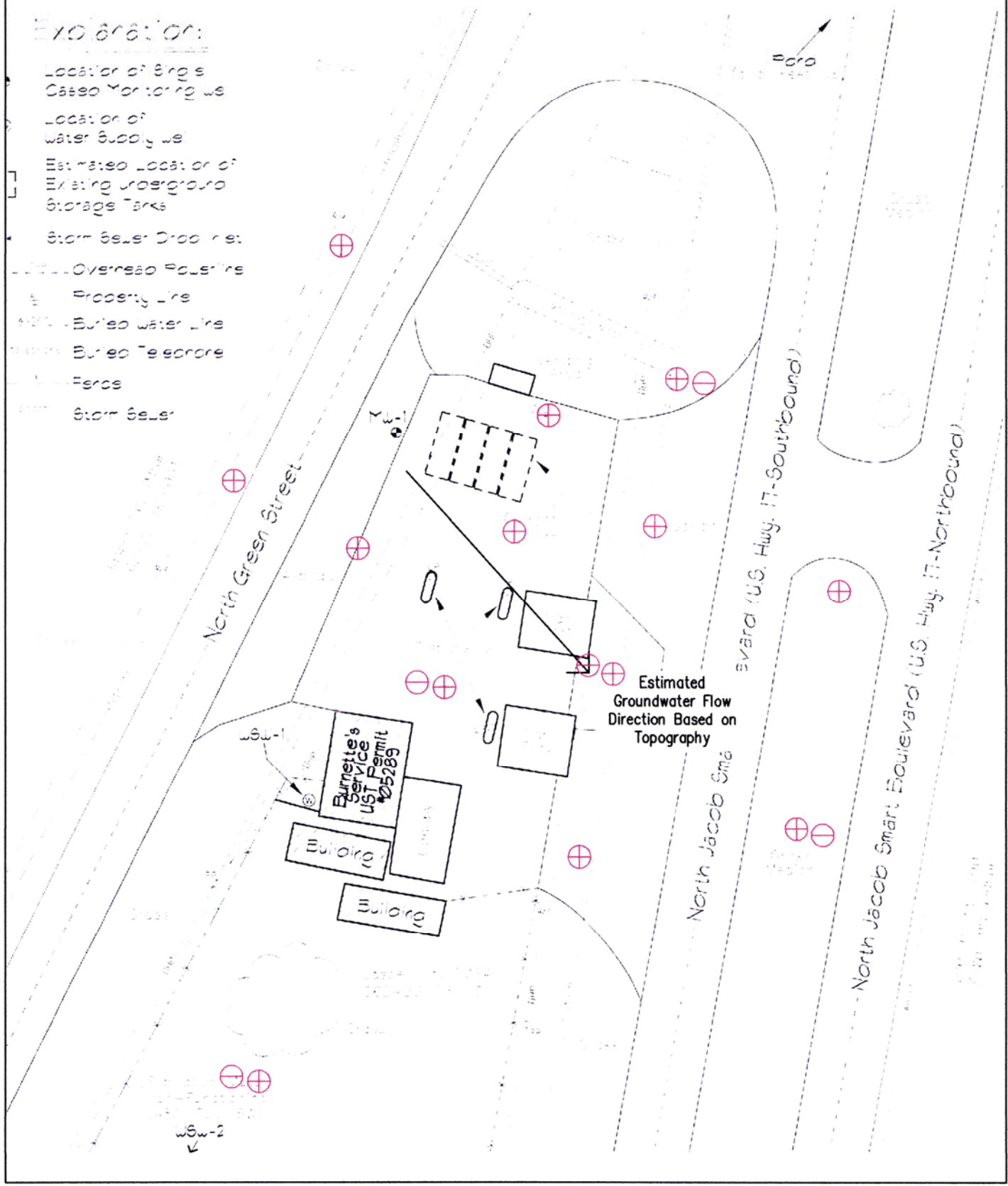


- Existing Groundwater Monitoring Well (1)
- Proposed Shallow Groundwater Screening Boring (19 @ 7 feet)
- Proposed Deep Groundwater Screening Boring (4 @ 32 feet)

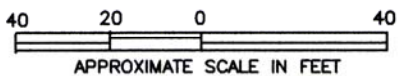
Title	Proposed Groundwater Screening Boring Location Plan	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	8/20/2014	
Job No.	J14-080-A	
		Figure No. 2

**EXPLANATION:**

- Location of Brigs Caseo Monitoring well
- Location of Water Supply well
- Estimated Location of Existing underground Storage Tanks
- Storm Sewer Drop net
- Overhead Pole/line
- Property Line
- Buried Water Line
- Buried Telephone
- Fence
- Storm Sewer



REFERENCE: Figure 2 Site Map by Midlands Environmental Consultants, Inc.



- ⊕ Existing Groundwater Monitoring Well (1)
- ⊕⊕ Proposed Shallow Groundwater Monitoring Well (13 ● 12 feet)
- ⊖⊖ Proposed Deep Groundwater Monitoring Well (5 ● 37 feet)

Title	Proposed Groundwater Monitoring Well Location Plan	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	8/20/2014	
Job No.	J14-080-A	
		Figure No. 3



**ASSESSMENT COMPONENT COST AGREEMENT**  
**SOUTH CAROLINA**  
 Department of Health and Environmental Control  
 Underground Storage Tank Management Division  
 State Underground Petroleum Environmental Response Bank Account  
 PO#4600271461

Facility Name Burnette's Service Station

UST Permit #: 05289

Cost Agreement #:

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan Preparation</b>				
A1. Site-specific Work Plan	1	each	\$470.00	\$470.00
B1. Tax Map	1	each	\$600.00	\$600.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$780.00	\$0.00
<b>2. A1. Receptor Survey *</b>				
	1	each	\$755.00	\$755.00
<b>3. Survey (500 x 500 feet)</b>				
A1. Comprehensive Survey	1	each	\$1,405.00	\$1,405.00
<b>B. Subsurface Geophysical Survey</b>				
1B. < 10 meters below grade		each	\$200.00	\$0.00
2B. > 10 meters below grade		each	\$250.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$200.00	\$0.00
<b>4. Mob/Demob (Each)</b>				
A1. Equipment	2	each	\$985.00	\$1,970.00
B1. Personnel	5	each	\$955.00	\$4,775.00
C1. Adverse Terrain Vehicle to install wells		each	\$209.00	\$0.00
<b>5. A1. Soil Borings (hand auger)*</b>				
		feet	\$1.00	\$0.00
<b>6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b>				
A1. Standard	261	per foot	\$3.50	\$913.50
C1. Fractured Rock		per foot	\$2.00	\$0.00
<b>7. A1. Soil Leachability Model (Each)</b>				
		each	\$1.00	\$0.00
<b>8. Abandonment (per foot)*</b>				
A1. 2" diameter or less		per foot	\$0.50	\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$1.00	\$0.00
C1. Dug/Bored well (up to 6 foot diameter)		per foot	\$2.50	\$0.00
<b>9. Well Installation (per foot)*</b>				
A1. Water Table (hand augered)		per foot	\$1.00	\$0.00
B1. Water Table (drill rig)	341	per foot	\$16.25	\$5,541.25
C1. Telescoping/ Pit Cased		per foot	\$17.50	\$0.00
D1. Rock Drilling		per foot	\$13.00	\$0.00
E1. 2" or 4" Rock Coring		per foot	\$1.00	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$5.00	\$0.00
H1. Recovery Well (4 inch diameter)		each	\$11.00	\$0.00
II. Pushed Pre-packed screen (1.25 diameter)		each	\$5.00	\$0.00
J1. Rotasonic (2 inch diameter)		each	\$2.00	\$0.00
K. Re-develop Existing Well		each	\$0.50	\$0.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>				
A1. Groundwater Purge	19	per well	\$165.00	\$3,135.00
B1. Air or Vapors		per receptor	\$1.00	\$0.00
C1. Water Supply	2	per well/receptor	\$115.00	\$230.00
D1. Groundwater No Purge or Duplicate	4	samples	\$50.00	\$200.00
E1. Gauge Well only		per well	\$5.00	\$0.00
F1. Sample Below Product		well	\$5.00	\$0.00
G1. Passive Diffusion Bag		each	\$1.00	\$0.00
H1. Field Blank	2	each	\$52.00	\$104.00
<b>11. Laboratory Analyses-Groundwater</b>				
A2. BTEX+Naphth. + Oxyg's+ 1,2 DCA + Ethan	29	sample	\$117.00	\$3,393.00
AA1. Lead, Filtered		sample	\$12.00	\$0.00
B2. Rush EPA Method 8260B (All of item A.)		sample	\$142.00	\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		sample	\$14.00	\$0.00
D1. PAH's		sample	\$30.00	\$0.00
E1. Lead, Unfiltered	23	sample	\$25.00	\$575.00



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

F1. EDB by EPA 8011	27	sample	\$75.00	\$2,025.00
FF1. EDB by EPA Method 8011 Rush		sample	\$100.00	\$0.00
G1. 8 RCRA Metals		sample	\$25.00	\$0.00
H1. TPH (9070)		sample	\$15.00	\$0.00
II. pH		sample	\$5.00	\$0.00
J1. BOD		sample	\$9.00	\$0.00
PP. Ethanol		sample	\$0.10	\$0.00
<b>11. Analyses-Soil</b>				\$0.00
Q1. BTEX + Naphth.		sample	\$80.00	\$0.00
R1. PAH's		sample	\$45.00	\$0.00
S1. 8 RCRA Metals		sample	\$20.00	\$0.00
U1. TPH-DRO (3550B/8015B)		sample	\$15.00	\$0.00
V1. TPH- GRO (5030B/8015B)		sample	\$15.00	\$0.00
W1. Grain size/hydrometer	2	sample	\$55.00	\$110.00
X1. Total Organic Carbon		sample	\$14.00	\$0.00
<b>11. Analyses-Air</b>				
Y1. BTEX + Naphthalene		sample	\$50.00	\$0.00
<b>11. Analyses-Free Phase Product</b>				
Z1. Hydrocarbon Fuel Identification		sample	\$100.00	\$0.00
<b>12. Aquifer Characterization*</b>				
A1. Pumping Test		per hour	\$20.00	\$0.00
B1. Slug Test*	3	per test	\$255.00	\$765.00
C1. Fractured Rock		per test	\$35.00	\$0.00
<b>13. A1. Free Product Recovery Rate Test*</b>		each	\$35.00	\$0.00
<b>14. Fate/Transport Modeling</b>				
A1. Mathematical Model		each	\$5.00	\$0.00
B1. Computer Model		each	\$5.00	\$0.00
<b>15. Risk Evaluation</b>				
B1. Tier II Risk Evaluation		each	\$25.00	\$0.00
<b>16. A1. Subsequent Survey*</b>		each	\$95.00	\$0.00
<b>17. Disposal (gallons or tons)*</b>				
AA. Wastewater	200	gallon	\$0.25	\$50.00
BB. Free Product		gallon	\$0.10	\$0.00
C1. Soil Treatment/Disposal	5	ton	\$35.00	\$175.00
D1. Drilling fluids		gallon	\$0.10	\$0.00
<b>18. Miscellaneous (attach receipts)</b>				
Flourescence for Product		each	\$3.00	\$0.00
Video Camera down a well or borehole		each	\$1.00	\$0.00
		each	\$0.00	\$0.00
<b>25. Well Repair*</b>				
A1. Additional Copies of the Report Delivered	5	each	\$49.00	\$245.00
B1. Repair 2x2 MW pad		each	\$5.00	\$0.00
C1. Repair 4x4 MW pad		each	\$5.00	\$0.00
D1. Repair well vault		each	\$5.00	\$0.00
F1. Replace well cover bolts		each	\$1.00	\$0.00
H1. Replace/Repair stick-up		each	\$5.00	\$0.00
II. Convert Flush-mount to Stick-up		each	\$5.00	\$0.00
J1. Convert Stick-up to Flush-mount		each	\$5.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$1.00	\$0.00
<b>TOTAL</b>				<b>\$26,966.75</b>

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





Catherine B. Templeton, Director

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



TREVER Z SLACK PG  
PRINCIPAL HYDROGEOLOGIST  
PETRA-TECH ENVIRONMENTAL LLC  
2435 E NORTH ST STE 1108-202  
GREENVILLE SC 29615-1442

SEP 17 2014

Re: Tier II Directive  
Burnette's Service Station, 11577 Jacob Smart Blvd., Ridgeland, SC  
UST Permit # 05289; Cost Agreement # 48414; MWA # UMW-25658  
Solicitation Number IFB-5400005780/3/20/13-EMW, Purchase Order # 4600368623  
Tier II Plan and Site Specific Work Plan received August 25, 2014  
Jasper County

Dear Mr. Slack:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the Site Specific Work Plan, Tier II Assessment Plan and associated cost agreement for the referenced site. Assessment activities should begin immediately upon receipt of this letter.

Cost agreement number 48414 has been approved in the amount shown on the enclosed cost agreement spreadsheet and will be kept on file so that compensation can begin. **The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with the referenced Invitation for Bid (IFB).** Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable. The Agency reserves the right to audit project records at any time during the project or after completion of the work. **The Tier II Assessment Report (1 hardcopies, 1 electronic copy, 1 copy to each property owner who has a well on their property), QAPP checklist, and invoice should be submitted within 90 days from the date of this correspondence.**

A copy of the approved assessment component cost agreement is enclosed for your information. Petra-Tech Environmental, LLC, can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2). Please reference the approved cost agreement number on all pertinent invoices and correspondence. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Agency is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved in writing by this Agency in order for Petra-Tech Environmental, LLC, to seek future cost compensation. Any temporary well converted to a permanent well will be reimbursed at the permanent well installation rate.

**Any item(s) not clearly or completely addressed in the report (SC certified driller's number, disposal manifest for soil cuttings, disposal manifests for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account.** In accordance with section 3.14.4. of the referenced IFB, if the time interval between collection of groundwater samples from the permanent monitoring well network and receipt of the report and exceeds 45 days, the contractor will submit an updated comprehensive groundwater sampling report to include blank and duplicate samples for all wells and surface water at no additional cost. The Agency reserves the right to deny payment for laboratory analyses if the detection limit exceeds the reporting limit in Appendix E of the QAPP for the UST Division. As agreed to in the referenced contract, the owner/operator and property owner of the referenced facility will not be responsible for any costs associated with this assessment.

Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met. All shallow wells are to be installed with screen intervals that bracket the water table.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The Division suggests a roll off container be used for disposal. 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 legible 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 in a location acceptable to the property owner. 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 number 05289 and Cost Agreement number 48414. If you have questions concerning this correspondence, or would like to submit additional information, please contact me at (803) 898-7542, fax me at (803) 898-0673, or e-mail me at [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov).

Sincerely,



Minda Hornosky, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement  
Monitoring Well Approval

cc: Mr. Henry A. Torres, PO Box 834, Ridgeland, SC 29936 (w/o enc.)  
Technical File (w/ enc.)



Catherine B. Templeton, Director

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

### Monitoring Well Approval Form

**Approval is hereby granted to:** Petra-Tech Environmental, LLC.  
**(on behalf of):** Fate C. Burnette, Sr.  
**Facility:** Burnette's Service Station  
11577 N. Jacob Smart Blvd  
Ridgeland, SC  
**UST Permit Number:** 05289  
**County:** Jasper

This approval is for the installation of up to 23 temporary and 18 (13 shallow and 5 deep) permanent monitoring well to be installed in the approved locations following the South Carolina Well Standards, R.61-71 and 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 Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. 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 Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.
5. If any of the information provided to the Agency changes, notification to Minda Hornosky (tel: (803) 898-7542 or e-mail: hornosms@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. Agency 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:** September 9, 2014

**Approval #: UMW-25658**

  
Minda Hornosky, Hydrogeologist  
Assessment Section  
UST Management Division  
Bureau of Land and Waste Management

# Approved Cost Agreement 48414

Facility 05289 BURNETTES SERVICE STATION

HORNOSMS

PO Number.

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1 0000	470 00	470 00
		B1 TAX MAP	1 0000	600 00	600 00
02 RECEPTOR SURVEY		A1 RECEPTOR SURVEY	1 0000	755 00	755 00
03 COMPREHENSIVE SURVEY		A1 COMPREHENSIVE SURVEY	1 0000	1,405 00	1,405 00
04 MOB/DEMOB		A1 EQUIPMENT	2 0000	985 00	1,970 00
		B1 PERSONNEL	5 0000	955 00	4,775 00
06 SOIL BORINGS (DRILLED)		A1 SOIL BORING/FLD SCR STANDARD	261 0000	3 50	913 50
09 WELL INSTALLATION		B1 WATER TABLE (DRILL RIG)	341 0000	16 25	5,541 25
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	19 0000	165 00	3,135 00
		C1 WATER SUPPLY	2 0000	115 00	230 00
		D1 GROUNDWATER NO PURGE/DUPLICATE	4 0000	50 00	200 00
		H1 FIELD BLANK	2 0000	52 00	104 00
11 ANALYSES	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	29 0000	117 00	3,393 00
		E1 LEAD	23 0000	25 00	575 00
		F1 EDB BY 8011	27 0000	75 00	2,025 00
	SOIL SOIL	W1 GRAIN SIZE / HYDROMETER	2 0000	55 00	110 00
12 AQUIFER CHARACTERIZATION		B1 SLUG TEST	3 0000	255 00	765 00
17 DISPOSAL		AA WASTEWATER	200.0000	0 25	50 00
		C1 SOIL TREATMENT DISPOSAL	5 0000	35 00	175 00
25 WELL REPAIR		A1 ADDITIONAL COPIES OF REPORT	5 0000	49 00	245 00
<b>Total Amount</b>					<b>27,436 75</b>

# Document Receipt Information

Hard Copy

CD

Email

Date Received

5 March 2015

Permit Number

65289

Project Manager

Stephanie Bruney

Name of Contractor

Petra-tech

USI Certification Number

Docket Number

8 tech

Scanned

TIER II Assessment Report

# **TIER II ASSESSMENT REPORT**

**Burnette's Service Station  
SCDHEC UST Permit #05289  
Cost Agreement #48414  
11577 N. Jacob Smart Boulevard  
Ridgeland, South Carolina  
Jasper County**

**PTE Job No. J14-080-A**

**February 25, 2015**



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**Petra-Tech Environmental  
2435 East North Street  
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February 25, 2015

South Carolina Department of Health and Environmental Control  
Division of Underground Storage Tank Management  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, South Carolina 29201-1708

Attention: Ms. Minda Hornosky

Subject: **Tier II Assessment Report**  
**Burnette's Service Station**  
11577 N. Jacob Smart Boulevard  
Ridgeland, Jasper County, South Carolina  
SCDHEC UST Permit #05289  
Cost Agreement #48414  
PTE Job No. J14-080-A

Dear Ms. Hornosky,

In accordance with Solicitation Number IFB-5400005780/3/20/13-EMW (Purchase Order #4600361453), Petra-Tech Environmental, LLC submits herein the completed Tier II Assessment Report for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) directive letter dated September 17, 2014 and was performed in accordance with Petra-Tech Environmental, LLC's Site Specific Work Plan dated August 20, 2014.

Please do not hesitate to contact us at 864.436.6322 if you have any questions concerning this submittal.

Sincerely,

**Petra-Tech Environmental**

Trever Z. Slack, P.G.  
Principal Hydrogeologist  
Registered, South Carolina #2565





## 1.0 FACILITY IDENTIFICATION

**Facility Name:** Burnette’s Service Station - UST Permit #05289  
**Facility Address:** 11577 N. Jacob Smart Boulevard  
Ridgeland, Jasper County, South Carolina  
**Facility Phone:** Not Applicable

**UST Owner:** Burnette, Fate (Deceased)  
**UST Owner Address:** P.O. Box 1908  
Ridgeland, South Carolina 29936  
**UST Owner Phone:** Not Applicable

**Property Owner:** H.A. Torres, Jr.  
**Property Owner Address:** P.O. Box 834  
Ridgeland, South Carolina 29936  
**Property Owner Phone:** 843.726.5207

## 2.0 INTRODUCTION

The subject property is located at 11577 North Jacob Smart Boulevard in Ridgeland, Jasper County, South Carolina (**Figure 1**) and currently operates as “Little T’s” Garage and towing company. The site is bordered primarily by residential properties to the west, and vacant commercial property to the south. Highway 17 (N. Jacob Smart Boulevard) followed by undeveloped forested properties are located to the east. A tax map of the areas immediately surrounding the subject site along with a table containing property owner names, addresses, and phone numbers (where available) has been included as **Appendix C**.

### 2.1 Site History

According to documents provided for Petra-Tech Environmental’s use in the SCDHEC Notice-to-Proceed package, four underground storage tanks (two 4,000-gallon gasoline, one 6,000-gallon gasoline, and one 3,000-gallon diesel) are associated with the subject site. A release from the underground storage tank system was reported in December 1991 and a single groundwater monitoring well has been installed at the site during previous environmental assessments (Initial Ground Water Assessment by Midlands Environmental Consultants, Inc. in 2014). The release is currently ranked 2BB 982.

The SCDHEC issued a directive letter on July 24, 2014 requesting the completion of a Site Specific Work Plan (SSWP) for the site. The SSWP was submitted to the SCDHEC on August 20, 2014 and was accepted in a Tier II Directive letter dated September 17, 2014. The results of the Tier II Assessment are contained herein.

### 2.2 Regional Geology and Hydrogeology

The site is located in the Coastal Plain Physiographic Province, which is generally comprised of Upper Cretaceous to present aged, wedge shaped formations that begin at the “Fall Line” and dip towards the Atlantic Ocean with ground surface elevations typically less than 300 feet. The sedimentary soils of these



formations consist of unconsolidated sand, clay, gravel, marl, cemented sands, and limestone that were deposited unconformably over Mesozoic/Paleozoic age basement rock consisting of granite, schist, and gneiss similar to the rocks of the Piedmont Physiographic Province. The thickness of the Coastal Plain sediments varies from zero at the “Fall Line” to more than 4,000 feet at the southern tip of South Carolina near Hilton Head Island.

The Coastal Plain province was formed during Quaternary, Tertiary, and late Cretaceous geologic periods and can be divided generally into three subunits: Upper Coastal Plain, Middle Coastal Plain, and Lower Coastal Plain. The Lower Coastal Plain comprises approximately one-half of the entire Atlantic Coastal Plain of South Carolina and is separated from the middle coastal plain by the Surry Scarp, a seaward facing scarp with a toe elevation of 90 to 100 feet. The Middle Coastal Plain and the Upper Coastal Plain each compose approximately one fourth of the Coastal Plain area and are separated by the Orangeburg Scarp, a seaward facing scarp with a toe elevation of 250 to 270 feet.

The Lower Coastal Plain is typically identified as the area east of the Surry Scarp below elevation 100 feet, with a vertical stratigraphic sequence overlying the basement rock consisting of unconsolidated Cretaceous, Tertiary, and Quaternary sedimentary deposits. The surface deposits of the Lower Coastal Plain were formed during the Quaternary period which was characterized by the formation of the Carolina Bays and scarps throughout the east coast due to sea level rise and fall, the formation of the barrier islands, and the formation of flood plains from major rivers. Preceding the Quaternary period, limestone was deposited in the Lower Coastal Plain.

The Middle Coastal Plain is typically identified as the area between the Orangeburg Scarp and the Surry Scarp and falls between elevation 100 feet and 270 feet. The vertical stratigraphic sequence overlying the basement rock consists of unconsolidated Cretaceous and Tertiary sedimentary deposits formed as a result of scouring from the regressive cycles of the Ocean as it retreated. During the Eocene epoch of the Tertiary period, limestone was deposited in the Middle Coastal Plain.

The Upper Coastal Plain is typically identified as the area between the “Fall Line” and the Orangeburg Scarp and falls between elevations 270 feet and 300 feet. The Upper Coastal Plain was formed during the Tertiary and late Cretaceous periods and is marked by the formation of the Sandhills dunes as a result of fluvial deposits over the Coastal Plain consisting of marine sediments, limestone, and sand.

According to Newell et al. (In Review)<sup>1</sup>, the site is located within the Bear Bluff Formation, a Pliocene aged unit consisting primarily of fossiliferous, coarse-grained calcareous sand, and sandy limestone. The Bear Bluff Formation unconformably overlies the Peedee Formation and underlies the Canepatch, Conway, or Waccamaw Formations.

### **2.3 Receptor Survey Results**

A receptor survey was conducted within 1,000 feet of the site boundaries (and within 500 feet of the groundwater contaminant plume) and consisted of the following:

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<sup>1</sup> Newell, Wayne L., Prowell, David (retired), Krantz, David, Powars, David, Mixon, Robert (retired), Stone, Byron, and Willard, Debra, in review, Surficial Geology and Geomorphology of the Atlantic Coastal Plain: U.S.G.S. Open File Report.

- A vehicular reconnaissance of roads and private residences to identify water supply wells and surface water features
- Delivery of Water Supply Well Survey Forms through United States Postal Service Mail to property owners within the receptor survey boundaries (returned well survey forms are included in **Appendix J**)
- A review of historical United States Geological Survey topographic maps and historical aerial photographs
- Utility Protection Service to locate underground structures and underground utilities on-site and proximate to the site

Four private water supply wells were identified within the approximate 1,000-foot survey radius of the site. The locations of the private water supply wells are shown on **Figure 1** and additional well construction details are included in Appendix J.

Additionally, five surface water features were identified within the approximate 1,000-foot survey radius. Drainage ditches/features are located adjacent to the site to the north and east (on both sides of Highway 17/North Jacob Smart Boulevard). A pond is located approximately 650 feet to the northeast of the site and is fed by Captain Bill Creek. Additionally, an unnamed intermittent stream which forms a tributary to the pond was identified approximately 400 feet to the east of the site. The locations of the surface water features are shown on **Figure 1**.

### 3.0 ASSESSMENT INFORMATION

The completed scope of services was based on Petra-Tech Environmental's SSWP dated August 20, 2014 and subsequent email and verbal correspondence with SCDHEC project manager Ms. Minda Hornosky. During the Tier II Assessment, the following activities were performed: groundwater screening; installation of groundwater monitoring wells to define the extent of dissolved phase petroleum compounds; slug tests in two shallow and one deep groundwater monitoring wells; and completion of a comprehensive groundwater sampling event.

#### 3.1 Site Specific Geology and Hydrogeology

Borings performed during the Tier II Assessment encountered soils consisting primarily of silty and sandy clays. Drill refusal was encountered at depths ranging from approximately 24 to 32 feet below ground surface on a calcareous sand / weathered limestone. Borings were not advanced past refusal (rock) pursuant to direction by the SCDHEC. Soil boring records are provided in **Appendix E**. A soil sample was collected from the screened interval of monitoring wells 05289-MW17 and 05289-MW17D and submitted for laboratory grain size analysis. Grain size analysis results indicated a silty, clayey, fine sand for both screened intervals.

Grain size distribution is summarized below:

Sample ID	Sample Depth (feet BGS)	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Silt	% Clay
MW17	10.0-11.5	0.0	0.0	1.0	45.3	20.6	33.1
MW17D	30.0-31.5	0.0	0.0	4.0	37.8	20.5	37.7

### 3.2 Summary of Field Screening Activities

Groundwater field screening was completed at the site on December 8, 2014. Field screening borings were performed by Mr. Michael Carey (SC Licensed Well Driller #1920D) under the supervision of Mr. Jason Chiorazzi (SC Licensed Well Driller #1648-B) and Mr. Joe Smith (SC Licensed Well Driller #1648-B). Quality Assurance verification for field screening activities was provided by Ms. Kaye Burch. Details of the groundwater field screening activities are included in Section 3.2.1 below.

#### 3.2.1 Groundwater Field Screening Activities

Nineteen temporary shallow groundwater screening borings (GW01 through GW19) and four temporary deep groundwater screening borings (GW03D, GW07D, GW11D, and GW17D) were performed on December 8, 2014 using a Geoprobe® direct push drill. Shallow groundwater screening borings were drilled to 8.0 feet below ground surface (152 total feet) and deep groundwater screening borings were drilled to depth of refusal ranging from 18 to 30 feet below ground surface (86 total feet).

Each groundwater screening boring location was established in the field from map-scaled distances, by measuring from site landmarks, and estimating right angles (**Figure 2**); and survey coordinates for the groundwater screening borings were obtained using a handheld Geographic Positioning System device. Groundwater samples collected in the field were screened using a portable MiniRAE® Lite Photo-Ionization Detector (PID). After representative samples were collected from each boring, the temporary boreholes were abandoned to the ground surface with a bentonite cement grout pursuant to South Carolina well standards<sup>2</sup>. Groundwater screening boring 1903 Well Records are included in **Appendix D**.

Select groundwater samples from sentinel borings were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, 1,2-dichloroethane (1,2-DCA), and methyl-tert-butyl-ether (MTBE) by Environmental Protection Agency (EPA) Method 8260B. Of the fifteen groundwater screening samples submitted for laboratory analysis (GW01, GW03, GW03D, GW05, GW06, GW07, GW07D, GW11, GW11D, GW12, GW13, GW15, GW17, GW17D, and GW19), petroleum compounds were detected above South Carolina established Risk-Based Screening Levels in groundwater screening samples GW01, GW07, and GW12. Field screening and laboratory analytical

<sup>2</sup> South Carolina Well Standards and Regulations, SCDHEC, Promulgated Pursuant to Section 44-55-40 of the 1976 South Carolina Code of Laws, R. 61-71, April 26, 2002.

results are summarized in **Table 1**. Groundwater screening laboratory data sheets are provided in **Appendix B**.

### 3.3 Summary of Well Installation Activities

Following completion of field screening activities, twenty-three groundwater monitoring wells (05289-MW02, 05289-MW02D, 05289-MW03, 05289-MW04, 05289-MW05, 05289-MW06, 05289-MW07, 05289-MW07D, 05289-MW08, 05289-MW09, 05289-MW10, 05289-MW11, 05289-MW13, 05289-MW14, 05289-MW14D, 05289-MW15, 05289-MW16, 05289-MW17, 05289-MW17D, 05289-MW18, 05289-MW19, 05289-MW19D, and 05289-MW20) were installed between January 22 and January 27, 2015 to complete the assessment of petroleum hydrocarbons in groundwater. The well locations were based on the groundwater field screening results and communication with SCDHEC project manager Ms. Minda Hornosky. Monitoring well installations were performed by Mr. Lawrence Large (SC Licensed Well Driller #1648-B) and Mr. Joe Smith (SC Licensed Well Driller #1648-B). Field personnel providing oversight of field screening activities included Mr. Trever Slack, P.G., Mr. Daniel Burch, and Mr. Jimmy Slagh. Quality Assurance verification for monitoring well installation activities was provided by Ms. Kaye Burch.

#### 3.3.1 Type II Wells

Shallow water table groundwater monitoring wells were installed as Type II monitoring wells using a CME 75 drill utilizing hollow stem auger (6.5-inch outside diameter) drilling techniques. The monitoring wells consist of 2-inch ID, schedule 40 PVC casing with flush-threaded joints. The bottom 10-foot section of each shallow water table monitoring well (05289-MW02 through 05289-MW11 and 05289-MW13 through 05289-MW20) is a manufactured well screen with 0.010-inch wide machined slots. Standard sand filter pack, bentonite seal, and grout were installed to the ground surface.

Total well depths for Type II wells are:

#### Shallow Water Table Groundwater Monitoring Wells

05289-MW02	13.88 feet BGS
05289-MW03	13.32 feet BGS
05289-MW04	13.79 feet BGS
05289-MW05	13.86 feet BGS
05289-MW06	13.49 feet BGS
05289-MW07	13.95 feet BGS
05289-MW08	13.65 feet BGS
05289-MW09	13.96 feet BGS
05289-MW10	13.62 feet BGS
05289-MW11	13.85 feet BGS
05289-MW13	13.82 feet BGS
05289-MW14	13.92 feet BGS
05289-MW15	13.84 feet BGS
05289-MW16	12.05 feet BGS
05289-MW17	13.91 feet BGS
05289-MW18	12.58 feet BGS

05289-MW19	14.00 feet BGS
05289-MW20	13.37 feet BGS

Monitoring well construction diagrams and 1903 Water Well Records are included in **Appendix E**. Monitoring well construction data is provided in **Table 2**.

### 3.3.2 Type III Wells

Monitoring wells 05289-MW02D, 05289-MW07D, 05289-MW14D, 05289-MW17D, and 05289-MW19D were installed as Type III, vertical extent (telescoping) monitoring wells. The wells were installed using a CME Model 75 drill utilizing auger (6.5-inch inside diameter) and mud rotary (5.5-inch diameter roller cone bit) drilling techniques. The telescoping wells were constructed with a 6-inch ID schedule 40 PVC outer casing installed to depths of 18 feet below ground surface (monitoring well 05289-MW14D), 20 feet below ground surface (monitoring wells 05289-MW02D, 05289-MW17D, and 05289-MW19D), and 25 feet below ground surface (monitoring well 05289-MW07D). The casings were pressure grouted to the ground surface with a bentonite-cement grout and allowed to cure for at least 24 hours. After curing, a 5.5-inch outside diameter roller cone bit was utilized to advance the borehole through the outer casing to the top of rock / drill refusal. A 2-inch ID schedule 40 PVC casing with flush-threaded joints was installed in each borehole. The bottom 5-foot section of each well is a manufactured well screen with 0.010-inch machined slots. Standard filter sand pack, bentonite seal and grout were installed to the ground surface.

Total well depth for Type III wells are:

Deep Groundwater Monitoring Wells	
05289-MW02D	30.00 feet BGS
05289-MW07D	32.49 feet BGS
05289-MW14D	23.77 feet BGS
05289-MW17D	30.51 feet BGS
05289-MW19D	32.14 feet BGS

Monitoring well construction diagrams and 1903 Water Well Records are included in **Appendix E**. Monitoring well construction data is provided in **Table 2**.

### 3.3.3 General

At assigned intervals, drill cuttings were collected for soil classification and were visually examined by a licensed driller and geologist. Soil samples were screened in the field at 5-foot intervals using a PID.

To help prevent cross-contamination, downhole drilling equipment was steam cleaned between borings. Approximately 3.4 tons of petroleum impacted drill cuttings generated during the installation of the monitoring wells were transported off-site for disposal. Waste transportation and disposal records are included in **Appendix G**.

Monitoring well installations were performed by a South Carolina licensed driller from Smith Drilling Services, LLC of Conyers, Georgia while being supervised by Petra-Tech Environmental, LLC field staff. Monitoring wells were developed by personnel from Smith Drilling Services and field personnel from

Petra-Tech Environmental through a combination of surging and overpumping. The monitoring well locations were surveyed by a licensed surveyor (George B. Souther RLS, SC #21232) to establish horizontal control and vertical elevations of the top of PVC casing and ground surface. The results of the comprehensive site survey are included as **Appendix A**. The site survey was used to create a site base map (**Figure 3**) for the site.

### **3.4 Groundwater Sampling**

Twenty-four groundwater monitoring wells, three private water supply wells (WSW01, WSW03, and WSW04), and five surface water sampling locations were sampled on January 26, 2015 by Mr. Daniel Burch, Mr. Thomas Vaughan, and Mr. James Slagh of Petra-Tech Environmental. Quality Assurance verification was provided by Ms. Kaye Burch. Private water supply well WSW02 was not in use and could not be accessed at the well head.

Groundwater monitoring wells were developed by purging until it was determined that groundwater flow through the well screen was not inhibited by silt or fine sand. Approximately 105 gallons of purge-water generated during the monitoring well development and sampling was transported off-site for disposal. Waste transportation and disposal records are attached in **Appendix G**. Monitoring well purging and sampling logs are included in **Appendix B**.

Sample containers were marked in the field with identifying numbers, properly preserved, placed into sample coolers, secured, and maintained at less than 4 degrees Celsius. The samples and chain-of-custody records were delivered to Shealy Environmental Services, Inc. in Columbia, South Carolina for analysis of BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B, 1,2-dibromoethane (EDB) by EPA Method 8011, and total lead by EPA Method 6010B. One duplicate sample per twenty wells sampled was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B, EDB by EPA Method 8011, and total lead by EPA Method 6010B. One field blank for each day in the field, surface water samples, and private water supply well samples were analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B and EDB by EPA Method 8011. Additionally, one trip blank for each sample cooler was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B.

### **3.5 Tier II Assessment Results**

#### **3.5.1 Groundwater Occurrence**

Site-wide stabilized groundwater elevations recorded on January 29, 2015 ranged from 19.26 (05289-MW05) to 23.12 (05289-MW14) for the shallow groundwater monitoring wells and 14.67 (05289-MW17D) to 19.01 (05289-MW02D) for the deep monitoring wells. A tabulation of the groundwater level data is provided in **Table 3**. A water table elevation contour map showing the occurrence and direction of groundwater flow in the shallow and deep monitoring well screened intervals is presented as **Figures 4a** and **4b**, respectively. Groundwater flow from the source area is generally to the east in the shallow water table aquifer and to the east/southeast in the deeper aquifer. Groundwater table elevations are strongly influenced by precipitation events.

Figures 5A through 5C provide hydrogeologic cross-sections through the subsurface soils. The cross-sections depict the surveyed ground surface elevation, subsurface lithologies, monitoring wells and their respective screened intervals, and the static groundwater elevation.

### 3.5.2 Groundwater Monitoring Well and Surface Water Sampling Results

Of the twenty-four groundwater monitoring wells, three private water supply wells, and five surface water locations sampled for laboratory analysis during the Tier II Assessment, nine wells (05289-MW01, 05289-MW02, 05289-MW02D, 05289-MW03, 05289-MW06, 05289-MW09, 05289-MW14D, 05289-MW17D, and 05289-MW19D) detected petroleum compounds above South Carolina established Risk-Based Screening Levels.

Petroleum compounds detected above Risk-Based Screening Level concentrations include:

- Benzene 05289-MW01, 05289-MW02, 05289-MW02D, 05289-MW03, 05289-MW06, 05289-MW14D, 05289-MW17D, and 05289-MW19D
- Toluene 05289-MW01, 05289-MW03, and 05289-MW06
- Ethylbenzene 05289-MW06
- Xylenes 05289-MW03 and 05289-MW06
- Naphthalene 05289-MW01, 05289-MW02, 05289-MW02D, 05289-MW03, and 05289-MW06
- EDB 05289-MW03,
- Tert-Amy-Alcohol (TAA) 05289-MW06 and 05289-MW09

Petroleum compounds were also detected above laboratory method detection limits in groundwater monitoring wells 05289-MW04, 05289-MW07, 05289-MW07D, 05289-MW08, 05289-MW11, 05289-MW13, 05289-MW14, 05289-MW15, 05289-MW16, 05289-MW17, and 05289-MW20; however, concentrations did not exceed South Carolina established Risk-Based Screening Levels. Xylenes were detected at a concentration of 0.46J µg/l in Surface water sample SW01 and tert-amyl-methyl-ether (TAME) was detected at a concentration of 1.5J µg/l in surface water sample SW04 and 1.5J µg/l in private water supply well WSW04; however, detections did not exceed South Carolina established Risk-Based Screenings Levels. The results of the laboratory analyses are summarized in **Table 3** and are shown on **Figures 6a** and **6b**. Benzene, toluene, ethylbenzene, xylenes and naphthalene isoconcentration maps are included as **Figures 7a** through **7e**, respectively. Laboratory data sheets are provided in **Appendix B**.

### 3.5.3 Aquifer Evaluation

Slug tests were performed in monitoring wells 05289-MW10, 05289-MW17, and 05289-MW17D to determine the hydraulic conductivity of the formation material exposed to the well screen. A SCDHEC *Summary of Slug Test Form* is provided in **Appendix F**. The data from the tests are presented on **Table 4**.

### Hydraulic Conductivity

Hydraulic conductivity is defined as the ability of the aquifer material to conduct water under a hydraulic gradient. Three slug tests were performed at the site during the current scope of work to measure the in-situ hydraulic conductivity of the aquifer and were evaluated using the Bouwer and Rice Method<sup>3</sup> for partially-penetrating wells in an unconfined aquifer (slug testing results are included in **Appendix F**). The hydraulic conductivity values measured at the site were  $4.71 \times 10^{-5}$  cm/sec (05289-MW10),  $7.49 \times 10^{-6}$  cm/sec (05289-MW17), and  $2.82 \times 10^{-7}$  cm/sec (05289-MW17D). The site-wide geometric mean hydraulic conductivity value for slug tests performed during the current scope of work is  $1.83 \times 10^{-5}$  cm/sec (**Table 4**).

### Horizontal Hydraulic Gradient

The horizontal hydraulic gradient is determined by dividing the difference in groundwater elevations at two locations by the horizontal distance between those locations along the direction of groundwater flow. The horizontal hydraulic gradient across the site is approximately 0.004 feet/foot between groundwater monitoring wells 05289-MW02 and 05289-MW05, and 0.009 feet/foot between groundwater monitoring wells 05289-MW02D and 05289-MW17D.

### Effective Porosity

Total porosity is the total volume of void spaces in a rock or sediment divided by the total volume of that rock or sediment. Effective porosity is less than total porosity, and is the ratio of those void spaces which are interconnected allowing water or other fluids to flow to the total volume of the rock or sediment. A number of scientific studies have been undertaken to identify relationships between effective porosity and the physical characteristics of rock or soil (lithology) in order to estimate the effective porosity for different lithological formations.

An effective porosity value of 0.18 was estimated for the shallow and deep wells screened in a silty, clayey, fine sand. The effective porosity was estimated based on published values of effective porosity for a fine sand (McWhorter and Sunada 1977<sup>4</sup>) which range from 0.01 to 0.46 with an arithmetic mean of 0.33 and for a clay which range from 0.01 to 0.18; arithmetic mean 0.06.

### Groundwater Flow Velocity

The velocity of groundwater flow is derived from the equation:

$$V = \frac{Ki}{n_e}$$

Where

- V* is the flow velocity
- K* is the hydraulic conductivity
- i* is the horizontal hydraulic gradient; and
- n<sub>e</sub>* is the effective porosity.

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<sup>3</sup> Bouwer, H., and Rice, R., A Slug Test for Determining Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, *Water Resources Research*, v. 12, o. 423-428.

<sup>4</sup> Mcwhorter, D. and Sunada, D., 1977, Groundwater Hydrology and Hydraulics, Water Resources Publication, 290 pp.



Based on these parameters and the data provided above the the geometric mean horizontal movement of groundwater is approximately 0.42 feet/year at the site. **Table 4** summarizes the groundwater flow velocity calculations.

#### **4.0 TIER II RISK EVALUATION AND RECOMMENDATIONS**

- Eighteen shallow and five deep groundwater monitoring wells were installed from January 22 through January and January 27, 2015 to assess the horizontal and vertical extent of groundwater contamination at the subject site.
- Twenty-four groundwater monitoring wells, three private water supply wells, and five surface water locations were sampled for laboratory analysis during the Tier II Assessment. Petroleum compounds were detected above South Carolina established Risk-Based Screening Levels in monitoring wells 05289-MW01, 05289-MW02, 05289-MW02D, 05289-MW03, 05289-MW06, 05289-MW09, 05289-MW14D, 05289-MW17D, and 05289-MW19D. Compounds detected above South Carolina established Risk-Based Screening Levels include benzene, toluene, ethylbenzene, xylenes, naphthalene, EDB, and TAA.
- Groundwater flow from the source area is generally to the east in the shallow water table aquifer and to the east/southeast in the deeper aquifer.
- Petra-Tech Environmental recommends continued monitoring of the groundwater monitoring well network associated with the site to establish trends in groundwater contaminant concentrations and ensure that concentrations are attenuating naturally and receptors do not become impacted above South Carolina established Risk-Based Screening Levels. Aggressive Fluid Vapor Recovery should be considered for groundwater monitoring wells 05289-MW03 and 05289-MW06 where petroleum compounds were detected at concentrations approaching solubility limits.

## **TABLES**

**TABLE 1**  
**Summary of Groundwater Screening Results**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

	Method	RBSL (µg/L)	Groundwater Screening Sample											
			GW01	GW02	GW03	GW03D	GW04	GW05	GW06	GW07	GW07D	GW08	GW09	GW10
Boring Depth (ft bgs)	NA	NA	8	8	8	30	8	8	8	8	20	8	8	8
Depth-to-Groundwater (ft bgs)	NA	NA	5	5	5	5	5	5	5	5	5	5	5	5
Sample Depth (ft bgs)	NA	NA	4-8	4-8	4-8	26-30	4-8	4-8	4-8	4-8	16-20	4-8	4-8	4-8
PID Reading (ppm)	NA	NA	607	391	27	2.7	12.6	6.9	0.8	39	51	2.7	0.6	21
Benzene (µg/L)	8260B	5	1500	NT	0.34	0.34	NT	3.8	ND	3.3	0.46	NT	NT	NT
Toluene (µg/L)	8260B	1,000	24000	NT	14	12	NT	36	1.1	480	100	NT	NT	NT
Ethylbenzene (µg/L)	8260B	700	2100	NT	5.7	4.6	NT	8.2	ND	260	46	NT	NT	NT
Xylenes (µg/L)	8260B	10,000	13000	NT	42	44	NT	33	1.9	890	190	NT	NT	NT
Naphthalene (µg/L)	8260B	25	650	NT	6.3	0.70	NT	3.0	ND	110	16	NT	NT	NT
1,2-DCA (µg/L)	8260B	5	ND	NT	ND	ND	NT	ND	ND	ND	ND	NT	NT	NT
MTBE (µg/L)	8260B	40	ND	NT	2.3	0.79	NT	2.9	0.97	ND	ND	NT	NT	NT

	Method	RBSL (µg/L)	Groundwater Screening Sample										
			GW11	GW11D	GW12	GW13	GW14	GW15	GW16	GW17	GW17D	GW18	GW19
Boring Depth (ft bgs)	NA	NA	8	18	8	8	8	8	8	8	18	8	8
Depth-to-Groundwater (ft bgs)	NA	NA	5	5	5	5	5	5	5	5	5	5	5
Sample Depth (ft bgs)	NA	NA	4-8	14-18	4-8	4-8	4-8	4-8	4-8	4-8	14-18	4-8	4-8
PID Reading (ppm)	NA	NA	0.7	0.9	10.5	0.0	0.0	0.1	0.0	0.8	0.5	0.1	0.3
Benzene (µg/L)	8260B	5	ND	ND	4.1	ND	NT	ND	NT	ND	ND	NT	ND
Toluene (µg/L)	8260B	1,000	2.7	4.5	24	ND	NT	ND	NT	1.9	1.6	NT	1.9
Ethylbenzene (µg/L)	8260B	700	1.8	2.6	7.9	ND	NT	ND	NT	1.4	1.3	NT	ND
Xylenes (µg/L)	8260B	10,000	8.3	10	50	ND	NT	ND	NT	5.7	3.4	NT	ND
Naphthalene (µg/L)	8260B	25	1.1	0.55	100	ND	NT	ND	NT	ND	ND	NT	ND
1,2-DCA (µg/L)	8260B	5	ND	ND	ND	ND	NT	ND	NT	ND	ND	NT	ND
MTBE (µg/L)	8260B	40	ND	ND	2.8	ND	NT	ND	NT	ND	ND	NT	ND

**NOTES:**  
RBSL - Risk Based Screening Level  
Shaded values indicate concentrations exceeding RBSLs.  
PID - MmaRae Lite Photoionization Detector  
ppm - parts per million  
ft bgs - feet below ground surface  
NA - Not Applicable  
NT - Not Tested. Sample not submitted for laboratory analysis

**TABLE 2**  
**Monitoring Well and Groundwater Surface Elevation Data**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Groundwater Depth Below Top-of-Casing	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
05289-MW01	23.37	23.05	6/17/14	3.76	19.29	12.00	2.00 - 12.00	21.37 - 11.37
			1/29/15	2.24	20.81			
05289-MW02	23.59	23.21	1/29/15	3.01	20.20	13.88	3.68 - 13.68	19.91 - 9.91
05289-MW02D	23.13	22.79	1/29/15	3.78	19.01	30.00	24.80 - 29.80	-1.67 - -6.67
05289-MW03	23.64	23.49	1/29/15	3.08	20.41	13.32	3.12 - 13.12	20.52 - 10.52
05289-MW04	23.26	22.93	1/29/15	2.41	20.52	13.79	3.59 - 13.59	19.67 - 9.67
05289-MW05	22.50	22.14	1/29/15	2.88	19.26	13.86	3.66 - 13.66	18.84 - 8.84
05289-MW06	24.14	23.73	1/29/15	2.56	21.17	13.49	3.29 - 13.29	20.85 - 10.85
05289-MW07	24.32	23.94	1/29/15	2.64	21.30	13.95	3.75 - 13.75	20.57 - 10.57
05289-MW07D	24.34	23.96	1/29/15	5.32	18.64	32.49	27.29 - 32.29	-2.95 - -7.95
05289-MW08	24.00	23.76	1/29/15	2.70	21.06	13.65	3.45 - 13.45	20.55 - 10.55
05289-MW09	22.64	22.30	1/29/15	2.02	20.28	13.96	3.76 - 13.76	18.88 - 8.88
05289-MW10	21.39	21.07	1/29/15	0.47	20.60	13.62	3.42 - 13.42	17.97 - 7.97
05289-MW11	21.75	21.41	1/29/15	0.73	20.68	13.85	3.65 - 13.65	18.10 - 8.10
05289-MW13	22.29	21.96	1/29/15	1.36	20.60	13.82	3.62 - 13.62	18.67 - 8.67
05289-MW14	25.01	24.40	1/29/15	1.28	23.12	13.92	3.72 - 13.72	21.29 - 11.29
05289-MW14D	24.87	24.55	1/29/15	8.80	15.75	23.77	18.57 - 23.57	6.30 - 1.30
05289-MW15	20.76	20.33	1/29/15	0.00	20.33	13.84	3.64 - 13.64	17.12 - 7.12
05289-MW16	20.95	24.35	1/29/15	3.42	20.93	12.05	1.85 - 11.85	19.10 - 9.10
05289-MW17	22.48	22.17	1/29/15	1.92	20.25	13.91	3.71 - 13.71	18.77 - 8.77
05289-MW17D	22.42	22.28	1/29/15	7.61	14.67	30.51	25.31 - 30.31	-2.89 - -7.89
05289-MW18	21.49	24.44	1/29/15	3.04	21.40	12.58	2.38 - 12.38	19.11 - 9.11
05289-MW19	22.38	22.14	1/29/15	2.01	20.13	14.00	3.80 - 13.80	18.58 - 8.58
05289-MW19D	22.41	22.18	1/29/15	5.43	16.75	32.14	26.94 - 31.94	-4.53 - -9.53
05289-MW20	22.16	21.94	1/29/15	0.00	21.94	13.37	3.17 - 13.17	18.99 - 8.99

**NOTES:**

Measurements are in feet  
BGS - below ground surface  
Elevations are NAVD 88



**TABLE 4**  
**Groundwater Velocity**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

<b>VELOCITY CALCULATION</b>	<b>Hydraulic Conductivity (K) (centimeters/second)</b>	<b>Hydraulic Conductivity (K) (feet/day)</b>	<b>Hydraulic Conductivity (K) (feet/year)</b>	<b>Hydraulic Gradient (i) (unitless)</b>	<b>Effective Porosity (n) (unitless)</b>	<b>Groundwater Velocity (V) (feet/day)</b>	<b>Groundwater Velocity (V) (feet/year)</b>	<b>Groundwater Velocity (V) (meters/second)</b>
05289-MW10	4.71E-05	0.134	4.87E+01	0.004	0.18	2.97E-03	1.08	1.05E-08
05289-MW17	7.49E-06	0.021	7.75E+00	0.004	0.18	4.72E-04	0.17	1.66E-09
05289-MW17D	2.82E-07	0.001	2.92E-01	0.009	0.18	4.00E-05	0.01	1.41E-10
Mathematical Mean	1.83E-05	0.052	1.89E+01	0.006	0.18	1.16E-03	0.42	4.09E-09

**Notes:**

Hydraulic conductivity values were obtained from slug tests performed by Petra-Tech Environmental, LLC on January 30, 2015.

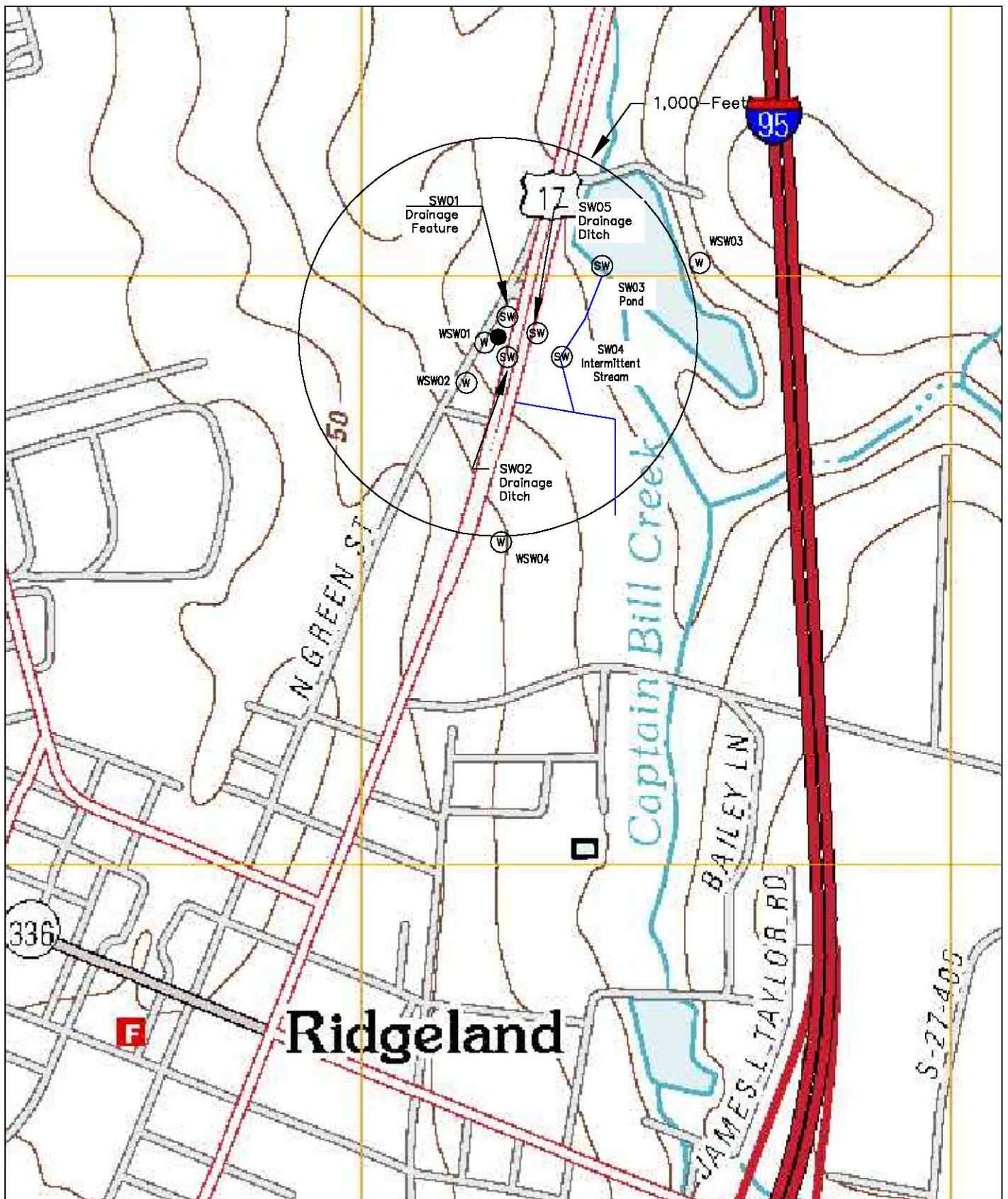
Effective porosity values were estimated from published values of effective porosity for a fine sand (ranging from 0.01 to 0.46; arithmetic mean 0.33) (McWorter and Sunada 1977) and a clay (ranging from 0.01 to 0.18; arithmetic mean 0.06) (McWorter and Sunada 1977).

Hydraulic gradient for the shallow aquifer was calculated based on groundwater elevations from and distances between monitoring wells 05289-MW02 and 05289-MW05 (Figure 4a).

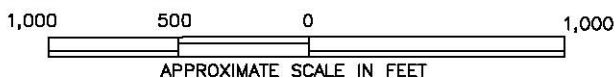
Hydraulic gradient for the deep aquifer was calculated based on groundwater elevations from and distances between monitoring wells 05289-MW02D and 05289-MW17D (Figure 4b).

Groundwater velocity derived from the equation  $V = Ki/n$ .

## FIGURES



REFERENCE: Ridgeland Quadrangle – 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval – 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



- Approximate Site Location
- ⊙(SW) Surface Water
- ⊙(W) Private Water Supply Well

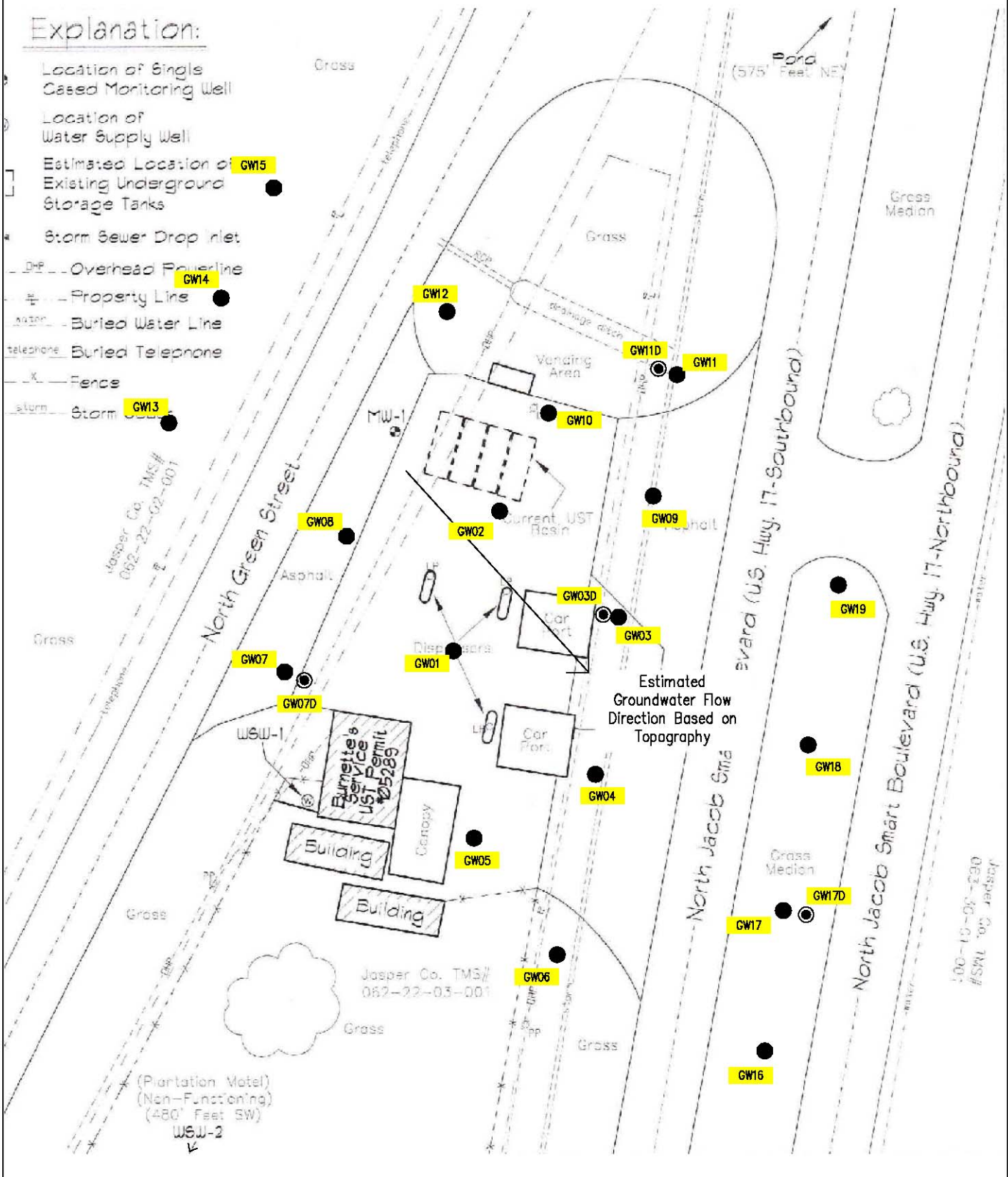


Title	Topographic Site Location Map		Figure No. 1
Project	Burnette's Service Station (UST Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	08/20/2014		
REV.	02/24/2015		
Job No.	J14-080-A		



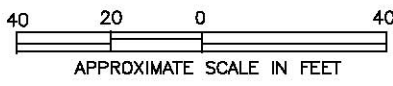
# Explanation:

- Location of Single Cased Monitoring Well
- Location of Water Supply Well
- Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Telephone
- Fence
- Storm

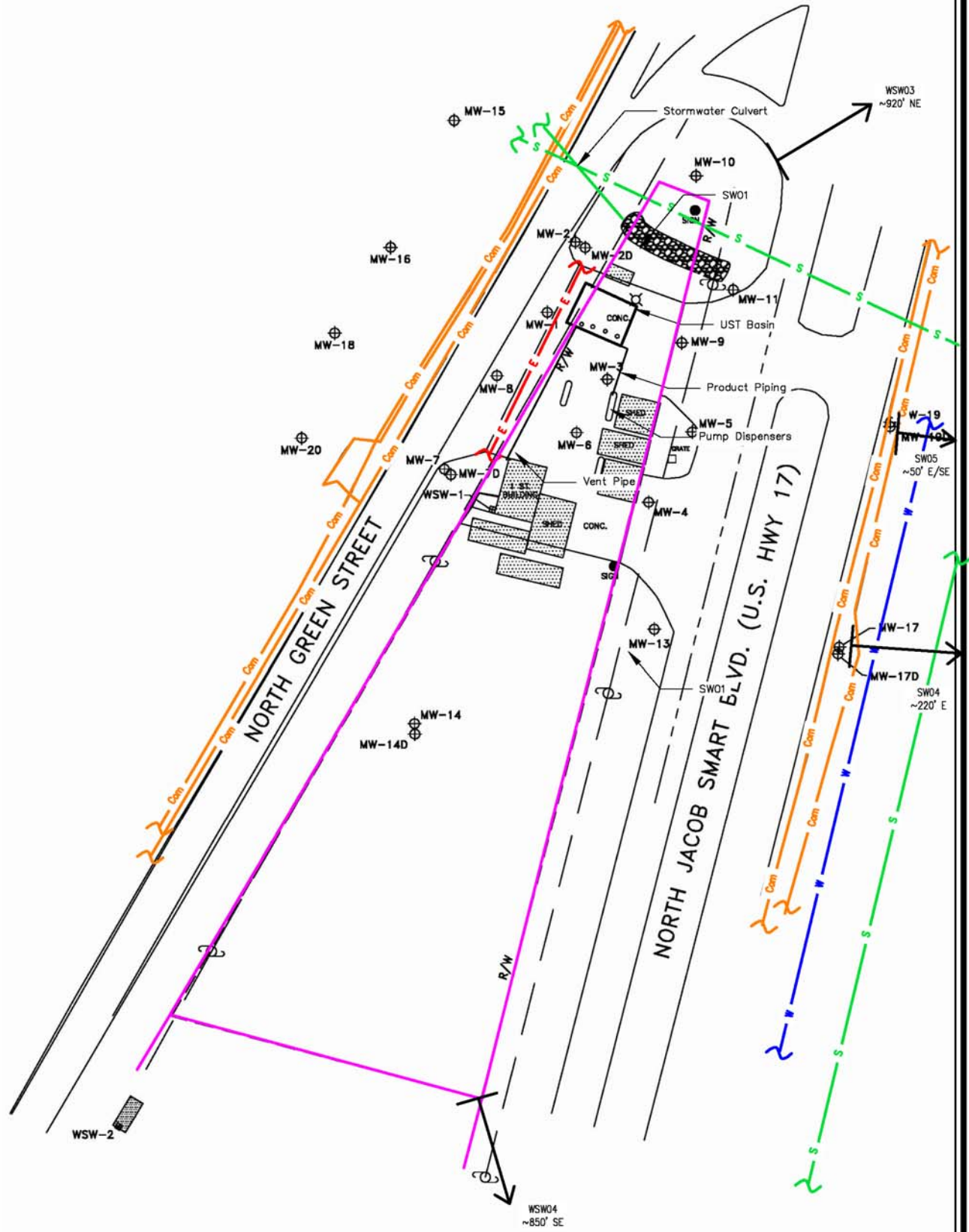


REFERENCE: Figure 2 Site Map by Midlands Environmental Consultants, Inc.








- Existing Groundwater Monitoring Well (1)
- Shallow Groundwater Screening Boring
- Deep Groundwater Screening Boring

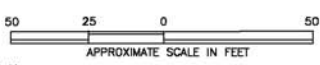


Title	Groundwater Screening Boring Location Plan	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	
Rev.	02/20/2015	
Job No.	J14-080-A	Figure No. 2

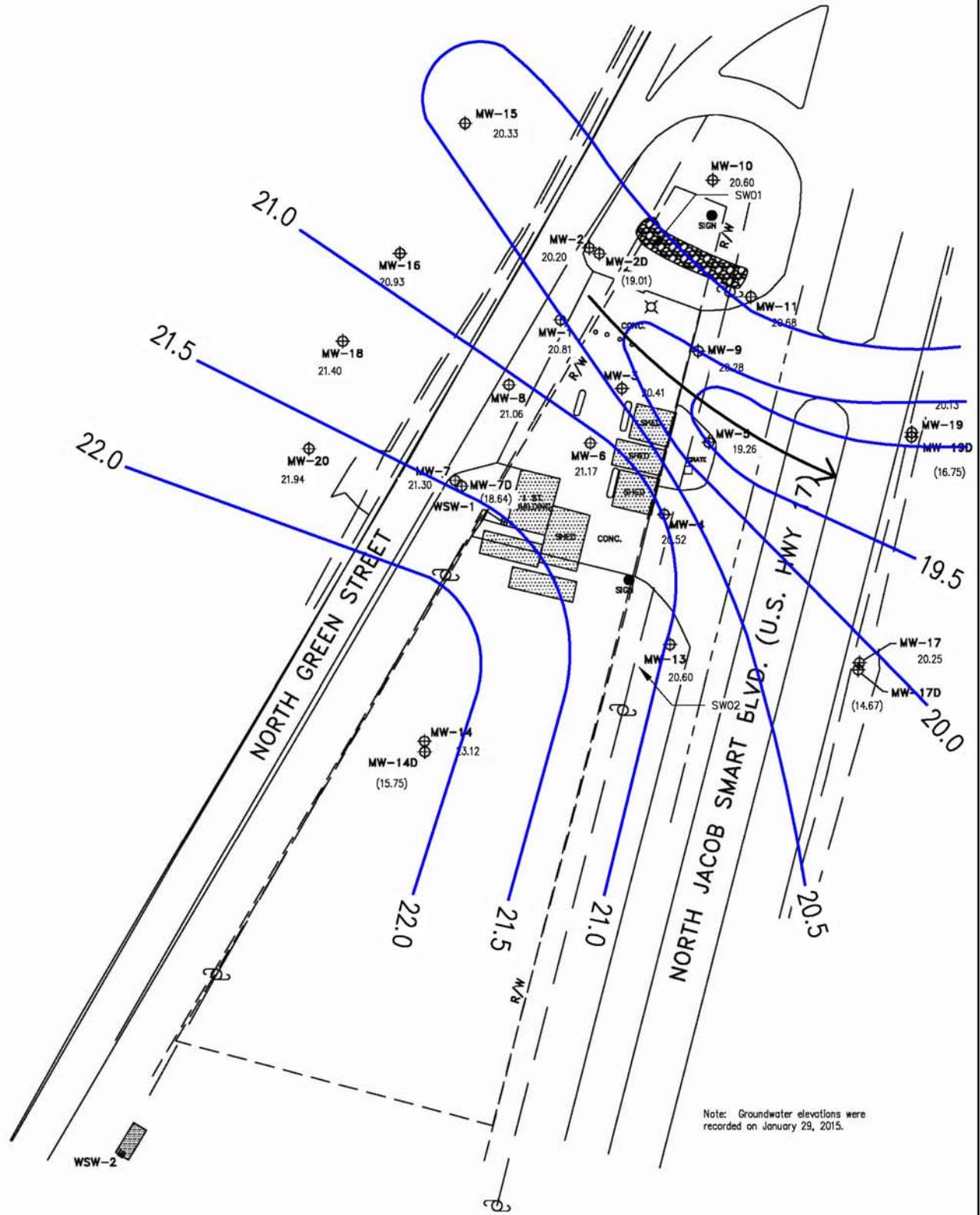


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
-  Approximate Location of Underground Electric Line
-  Approximate Location of Underground Communication (Cable/Phone) Line
-  Approximate Location of Underground Water Line
-  Approximate Location of Underground Gas Line
-  Approximate Location of Underground Sewer/Stormwater Line
-  Approximate Property Boundary



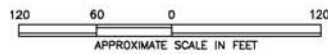
Title	Site Base Map	
Project	Burnette's Service Station (UST Permit #05288) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	02/25/2015	
Job No.	J14-080-A	<b>petra-tech</b> ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS
Figure No.	3	



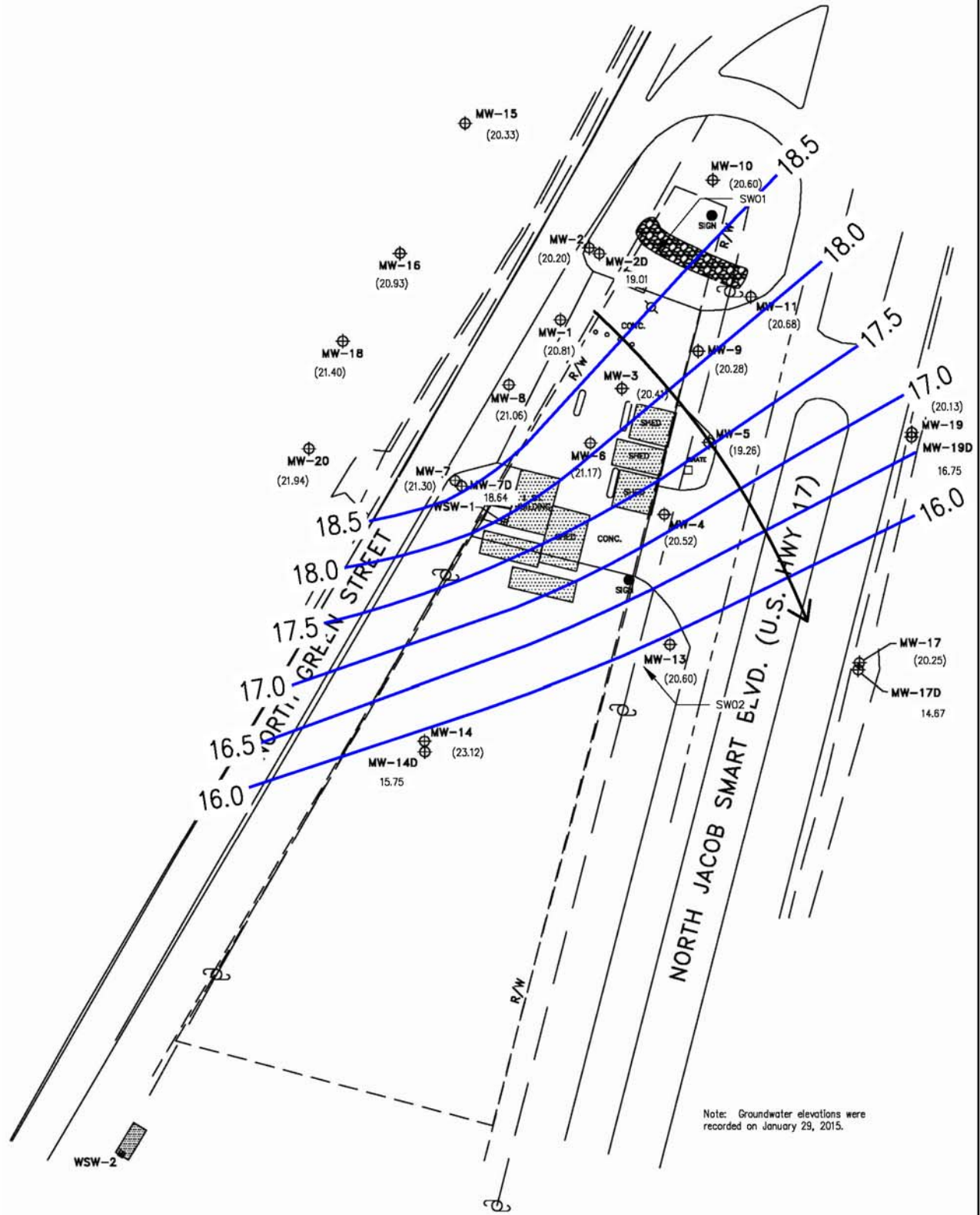
Note: Groundwater elevations were recorded on January 29, 2015.

REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015




- Groundwater Monitoring Well
- Groundwater Potentiometric Contour  
Contour Interval = 0.50-foot
- 541.28 Groundwater Elevation
- (541.28) Groundwater Elevation Not Used For Contouring Purposes
- Approximate Groundwater Flow Direction

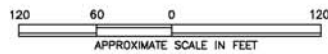


Title	Groundwater Potentiometric Map - Shallow Aquifer		
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 4a
Job No.	J14-080-A		



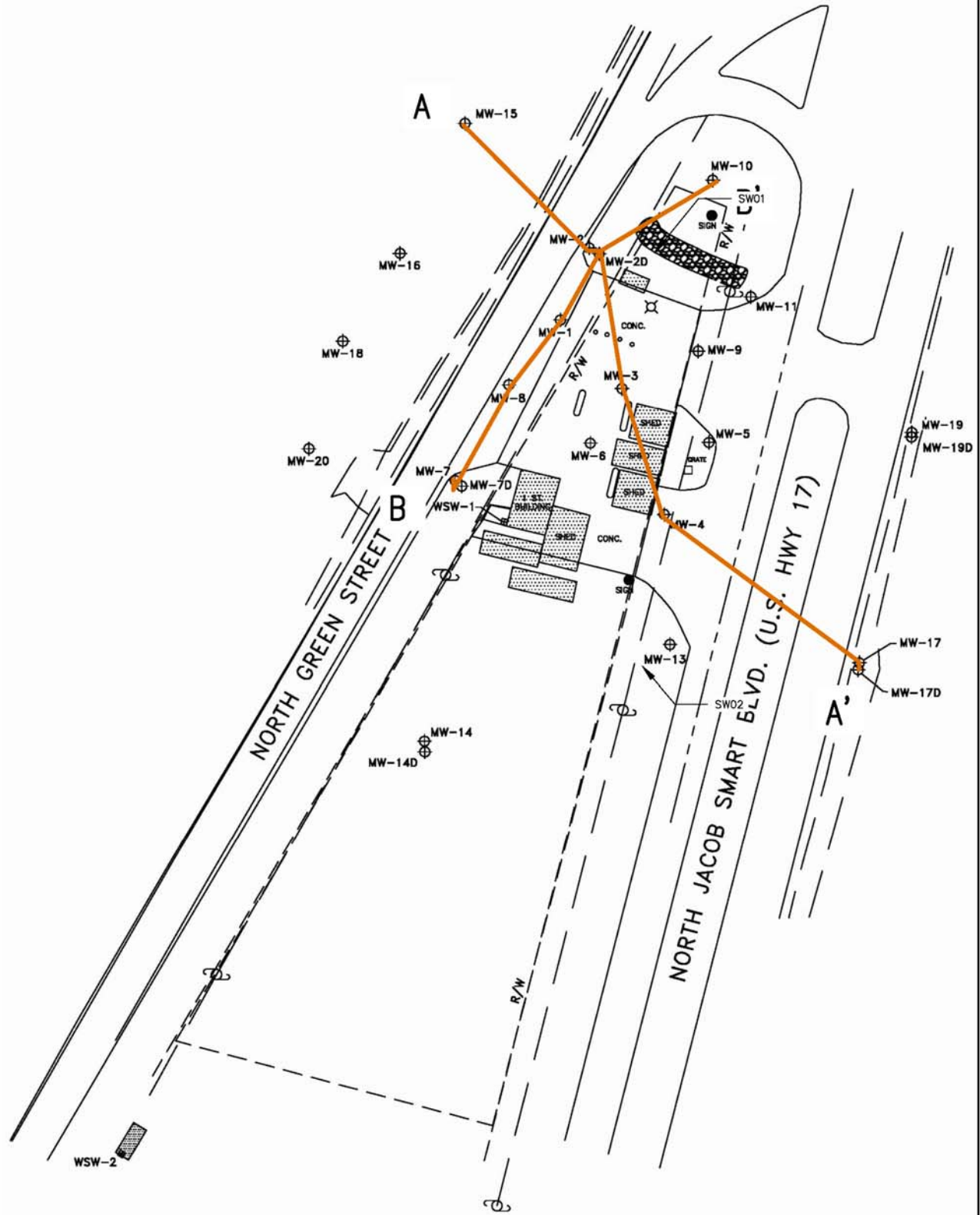
REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
-  Groundwater Potentiometric Contour  
Contour Interval = 0.50-foot
- 541.28 Groundwater Elevation
- (541.28) Groundwater Elevation Not Used For Contouring Purposes
-  Approximate Groundwater Flow Direction



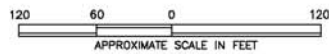
Note: Groundwater elevations were recorded on January 29, 2015.

Title	Groundwater Potentiometric Map - Deep Aquifer		
Project	Burnette's Service Station (UST Permit #05288) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 4b
Job No.	J14-080-A		

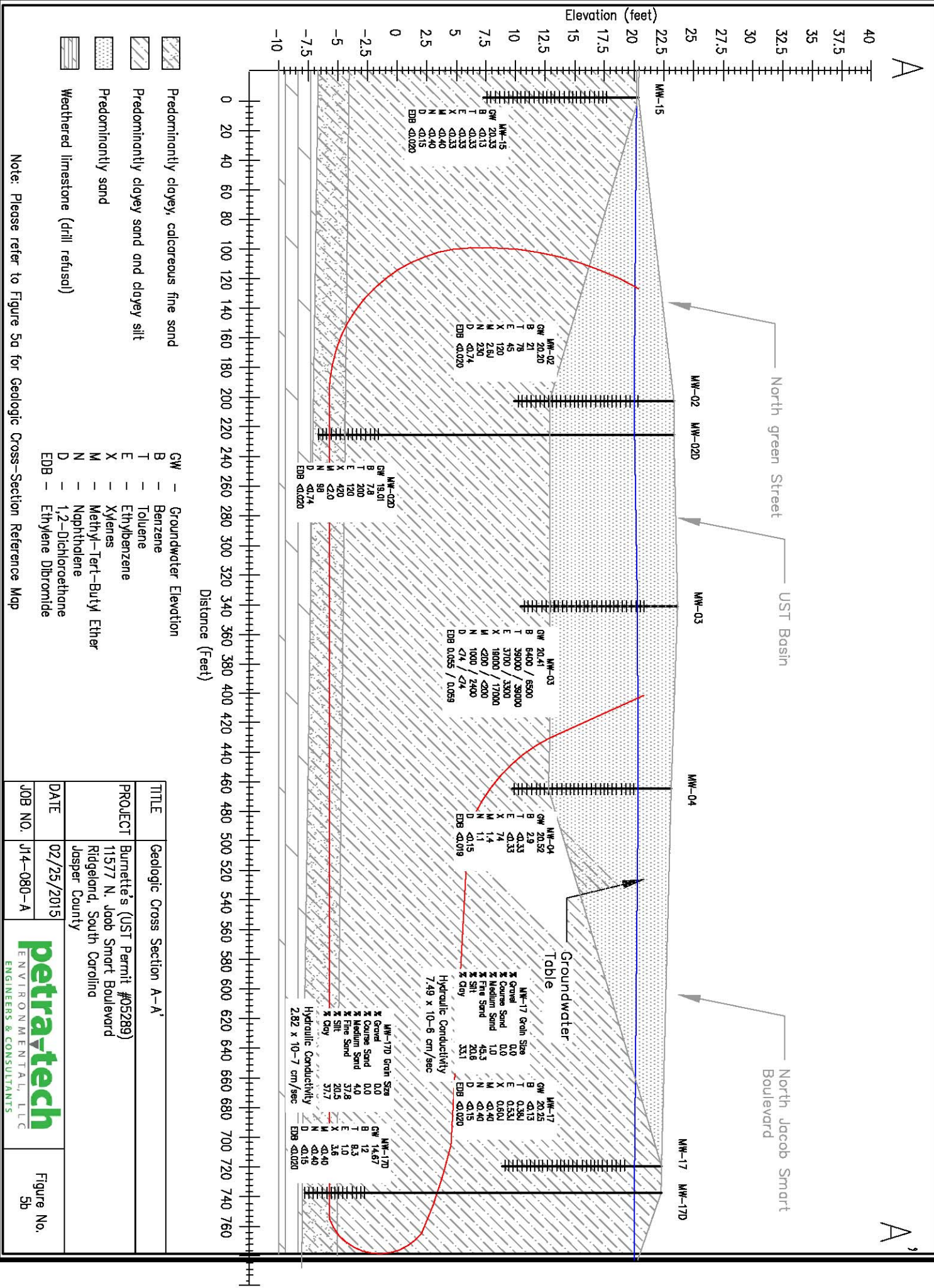


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

⊕ Groundwater Monitoring Well



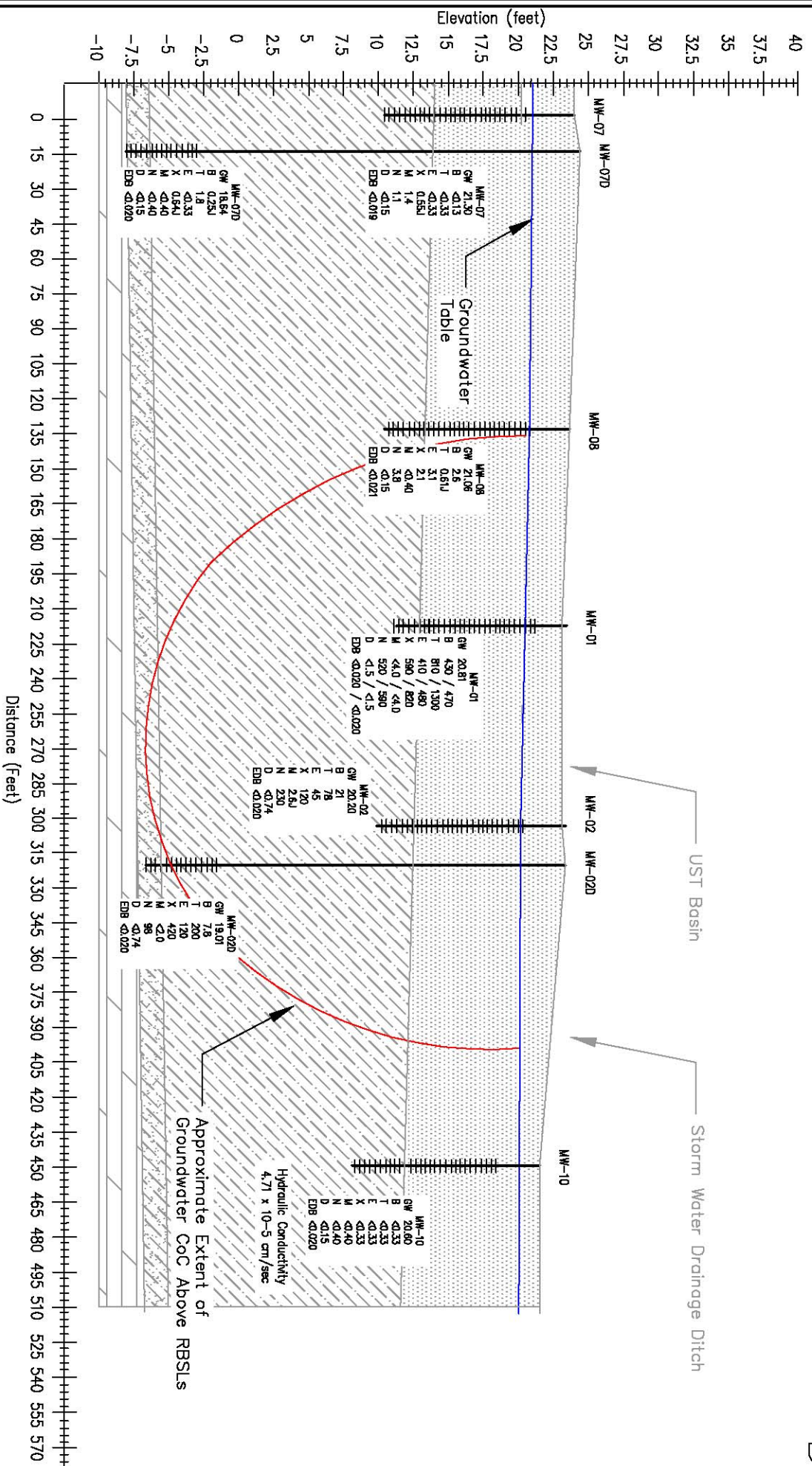
Title	Subsurface Geologic Cross-Section Reference Map		
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 5a
Job No.	J14-080-A		



Note: Please refer to Figure 5a for Geologic Cross-Section Reference Map

TITLE	Geologic Cross Section A-A'	
PROJECT	Burnette's (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
DATE	02/25/2015	
JOB NO.	JT4-080-A	
 ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS		
Figure No.	Figure No. 5b	

B



B'

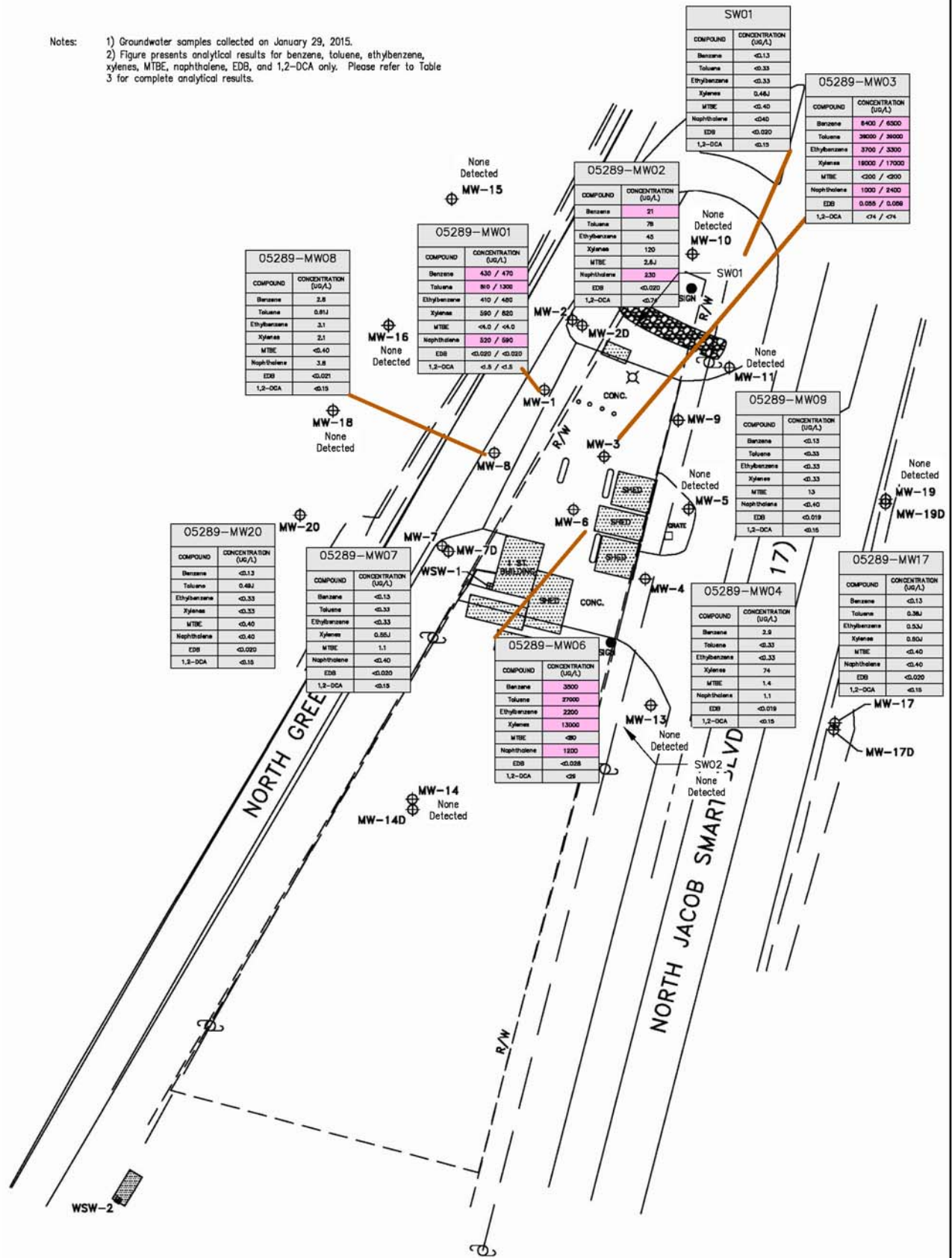
- Predominantly clayey, calcareous fine sand
- Predominantly clayey sand and clayey silt
- Predominantly sand
- Weathered limestone (drill refusal)

- GW - Groundwater Elevation
- B - Benzene
- T - Toluene
- E - Ethylbenzene
- X - Xylenes
- M - Methyl-Tert-Butyl Ether
- N - Naphthalene
- D - 1,2-Dichloroethane
- EDB - Ethylene Dibromide

Note: Please refer to Figure 5a for Geologic Cross-Section Reference Map

TITLE	Geologic Cross Section B-B'	
PROJECT	Burnette's (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
DATE	02/25/2015	
JOB NO.	J14-080-A	
 ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS		
Figure No.	Figure No. 5b	

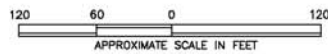
- Notes:
- 1) Groundwater samples collected on January 29, 2015.
  - 2) Figure presents analytical results for benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene, EDB, and 1,2-DCA only. Please refer to Table 3 for complete analytical results.



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015



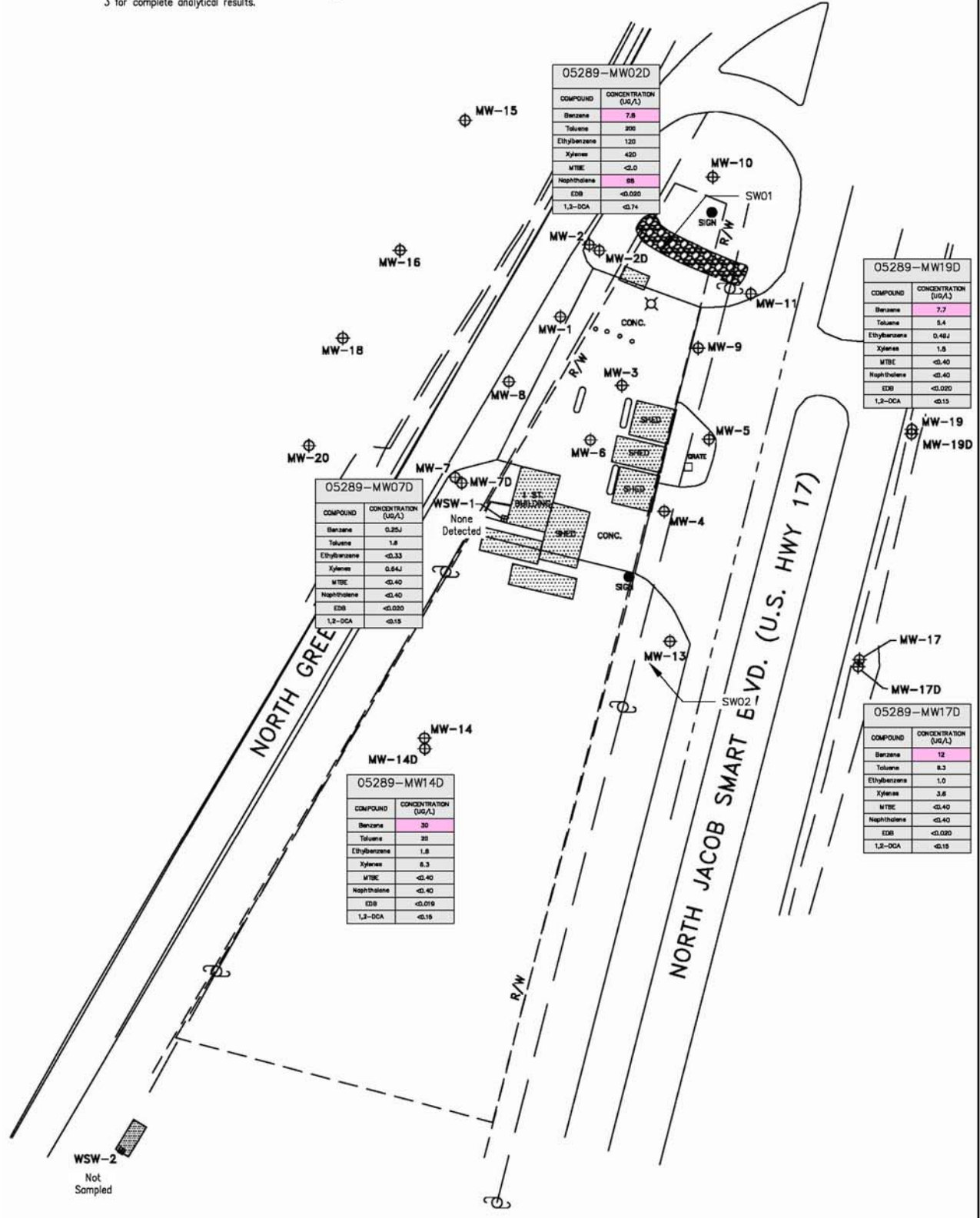
Groundwater Monitoring Well



Title	Groundwater CoC Map - Shallow Aquifer - January 2015		
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 6a
Job No.	J14-080-A		



- Notes:
- 1) Groundwater samples collected on January 29, 2015.
  - 2) Figure presents analytical results for benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene, EDB, and 1,2-DCA only. Please refer to Table 3 for complete analytical results.



05289-MW07D

COMPOUND	CONCENTRATION (UG/L)
Benzene	0.25U
Toluene	1.8
Ethylbenzene	<0.33
Xylenes	0.64U
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.020
1,2-DCA	<0.15

05289-MW02D

COMPOUND	CONCENTRATION (UG/L)
Benzene	7.8
Toluene	200
Ethylbenzene	120
Xylenes	420
MTBE	<0.0
Naphthalene	88
EDB	<0.020
1,2-DCA	<0.74

05289-MW19D

COMPOUND	CONCENTRATION (UG/L)
Benzene	7.7
Toluene	5.4
Ethylbenzene	0.48U
Xylenes	1.8
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.020
1,2-DCA	<0.15

05289-MW14D

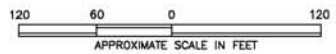
COMPOUND	CONCENTRATION (UG/L)
Benzene	30
Toluene	30
Ethylbenzene	1.8
Xylenes	6.3
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.019
1,2-DCA	<0.15

05289-MW17D

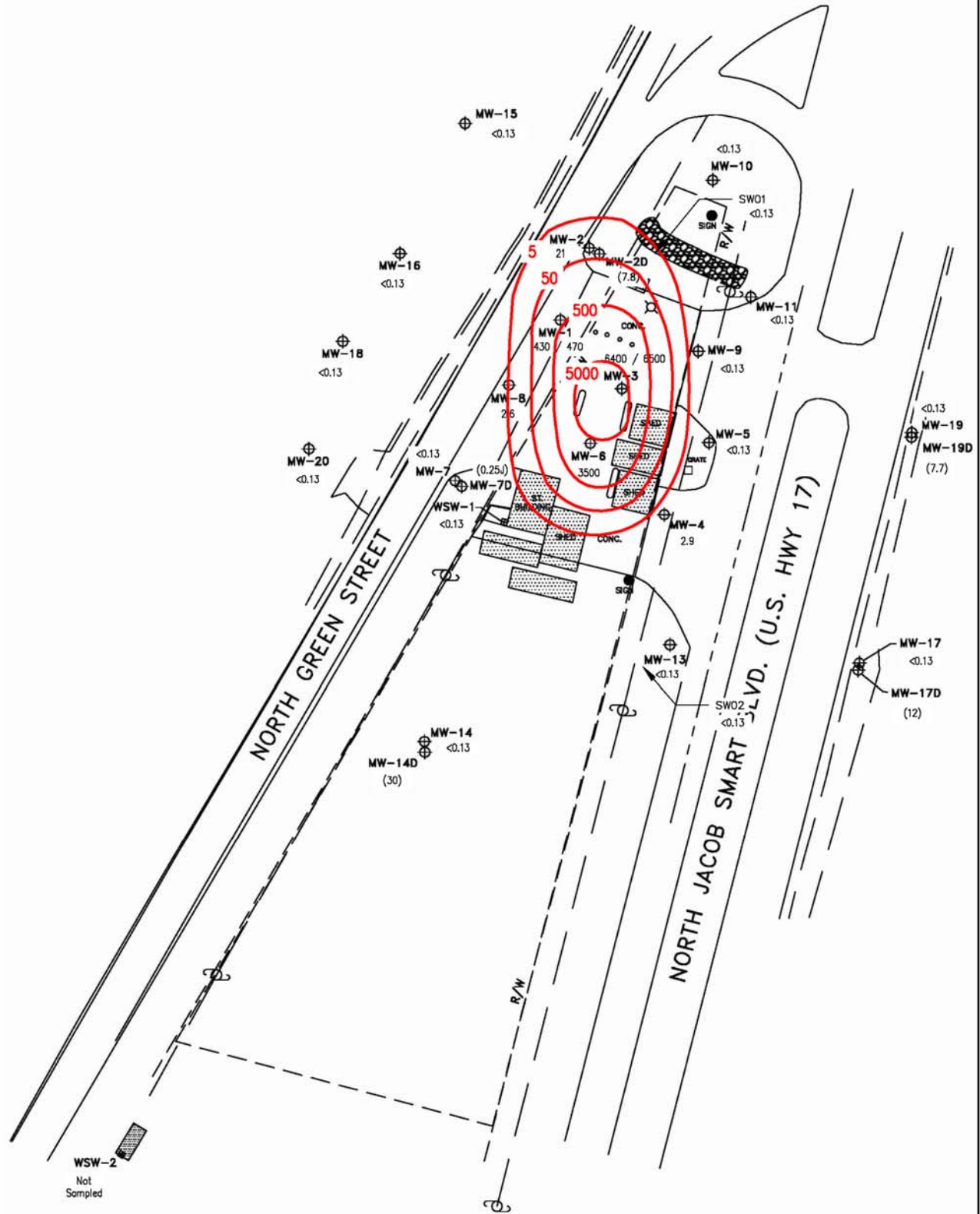
COMPOUND	CONCENTRATION (UG/L)
Benzene	12
Toluene	8.3
Ethylbenzene	1.0
Xylenes	3.6
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.020
1,2-DCA	<0.15

REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

⊕ Groundwater Monitoring Well

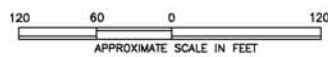


Title	Groundwater CoC Map - Deep Aquifer - January 2015		
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 6b
Job No.	J14-080-A		

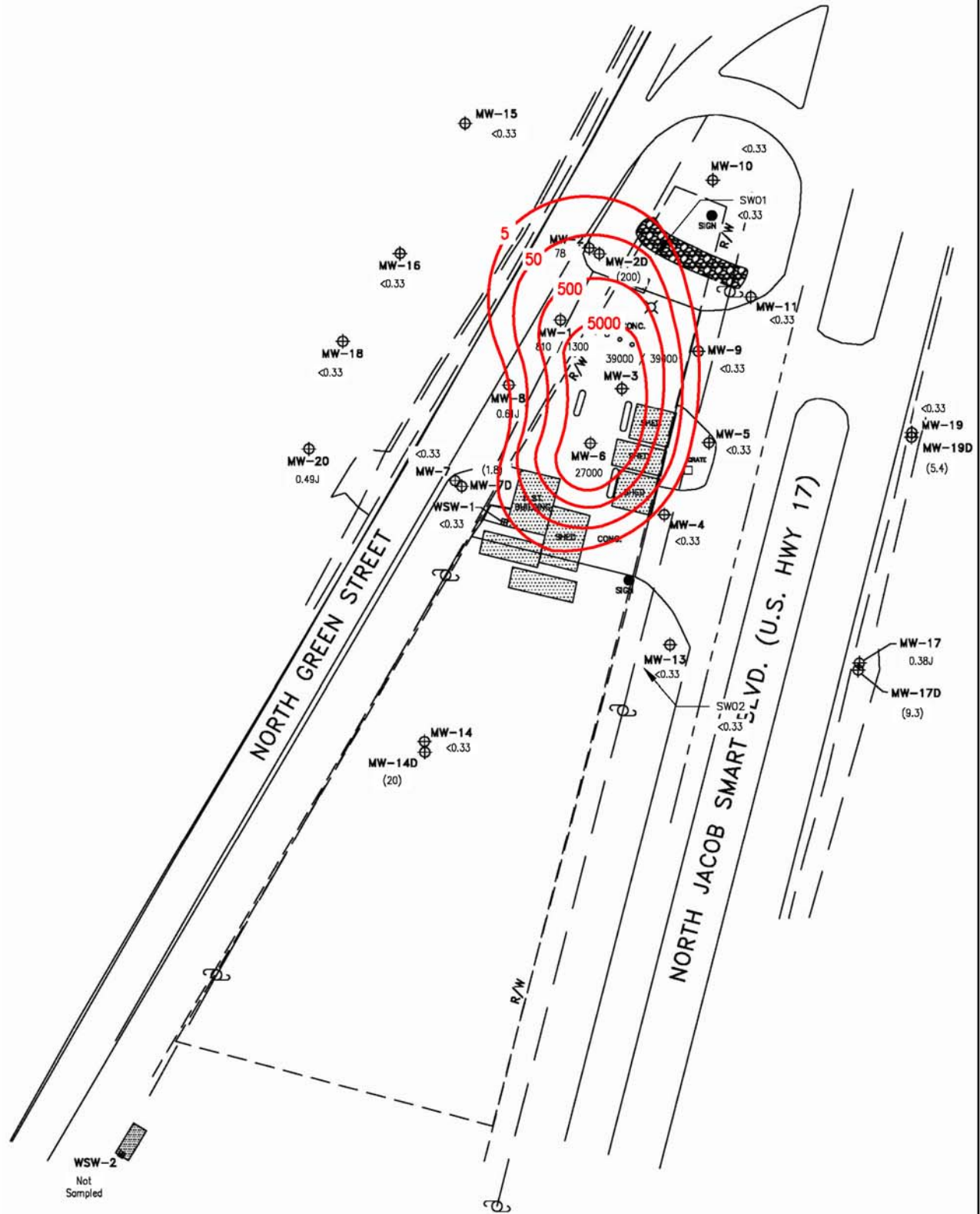


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015



- ⊕ Groundwater Monitoring Well
- 2.5J Benzene Concentration In Micrograms Per Liter
- (2.5J) Benzene Concentration In Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval
- Benzene Isoconcentration Line

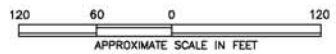


Title	Benzene Isoconcentration Map - January 2015		
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 7a
Job No.	J14-080-A		

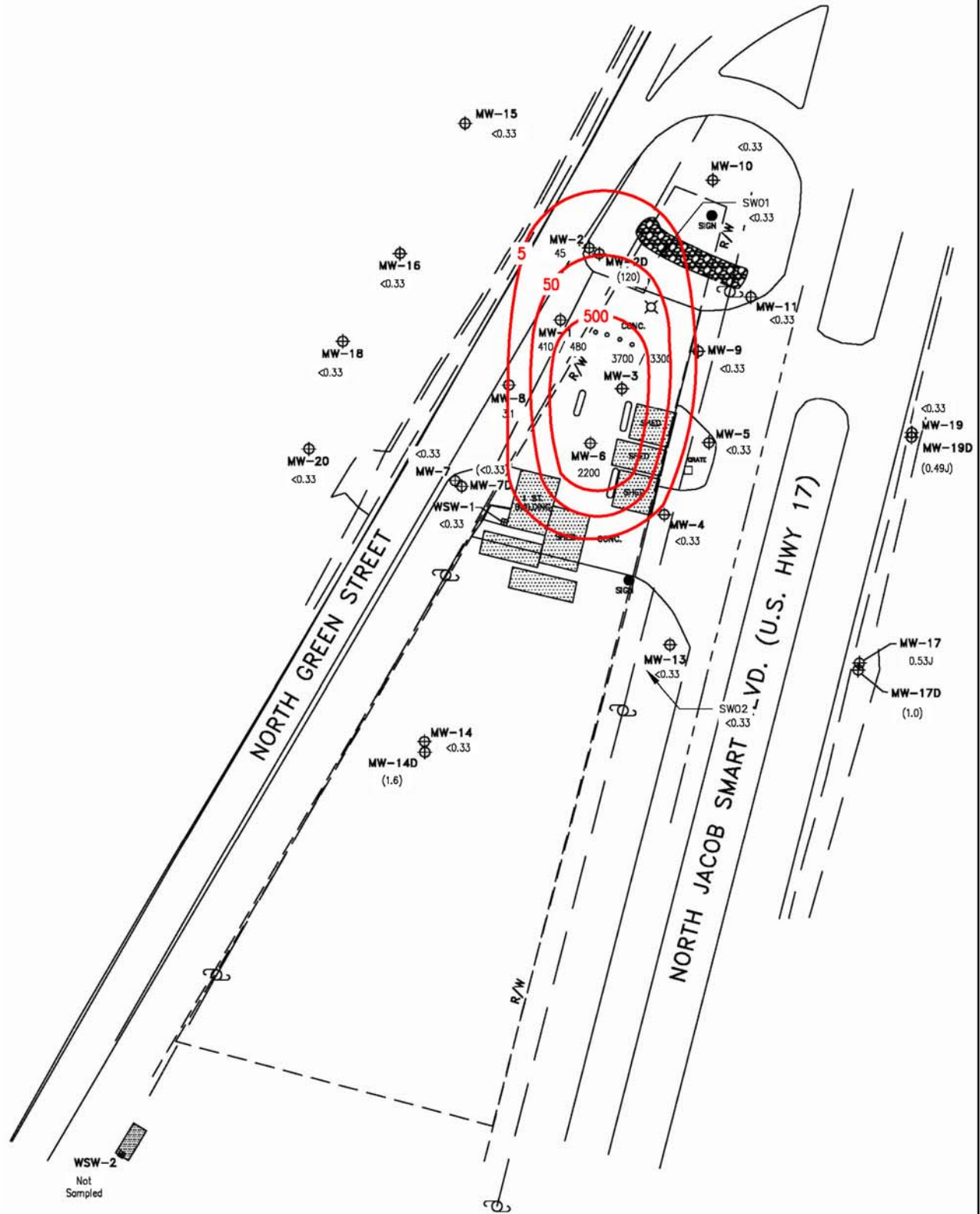


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
- 2.5J Toluene Concentration In Micrograms Per Liter
- (2.5J) Toluene Concentration In Micrograms Per Liter Not Used For Contouring Purpose Due To The Depth Of The Screened Interval
-  Toluene Isoconcentration Line

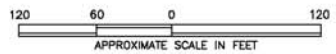


Title	Toluene Isoconcentration Map - January 2015		
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 7b
Job No.	J14-080-A		

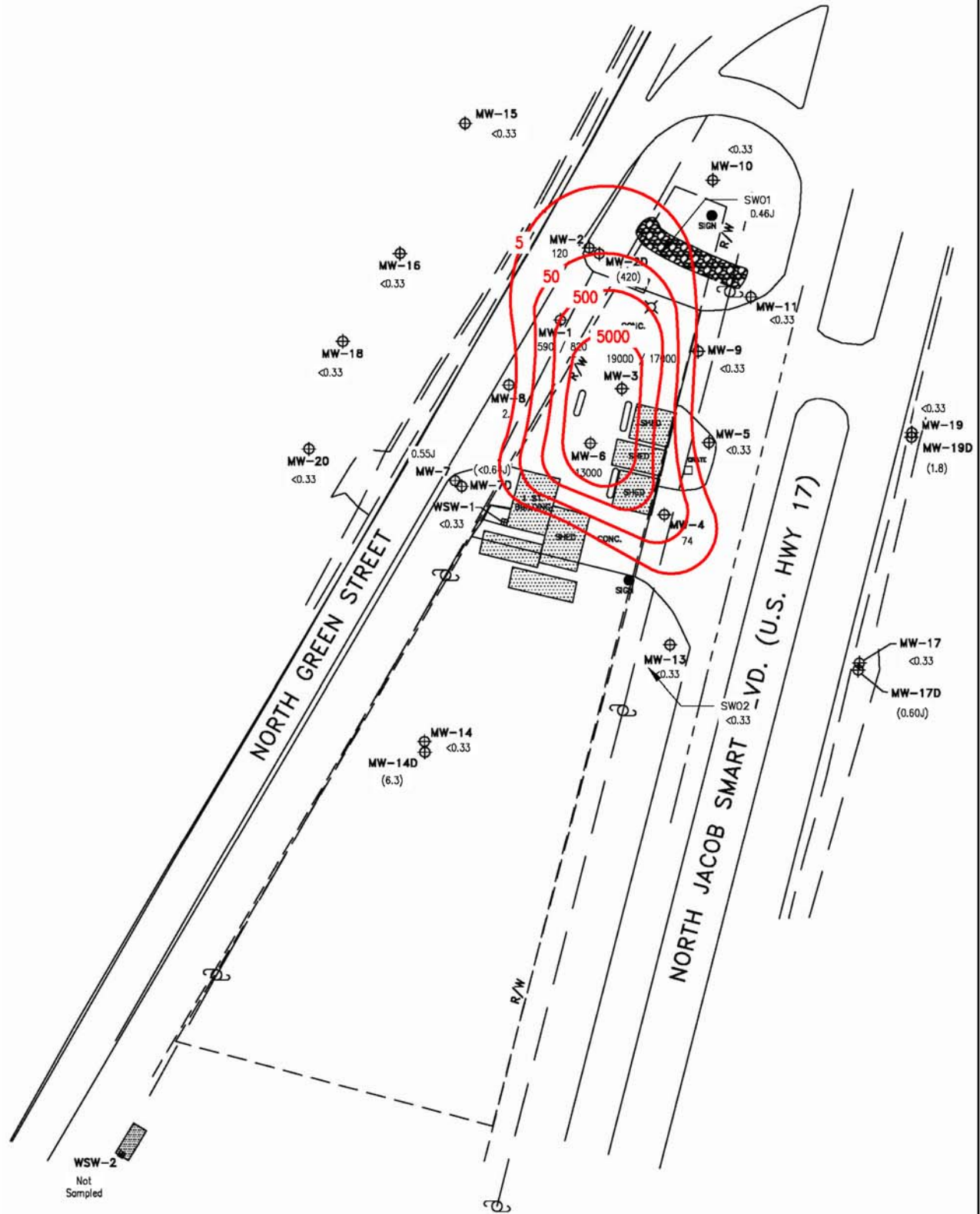


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015



- ⊕ Groundwater Monitoring Well
- 2.5J Ethylbenzene Concentration In Micrograms Per Liter
- (2.5J) Ethylbenzene Concentration In Micrograms Per Liter Not Used For Contouring Purpose Due To The Depth Of The Screened Interval
- Ethylbenzene Isoconcentration Line

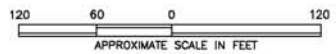


Title	Ethylbenzene Isoconcentration Map - January 2015		
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 7c
Job No.	J14-080-A		

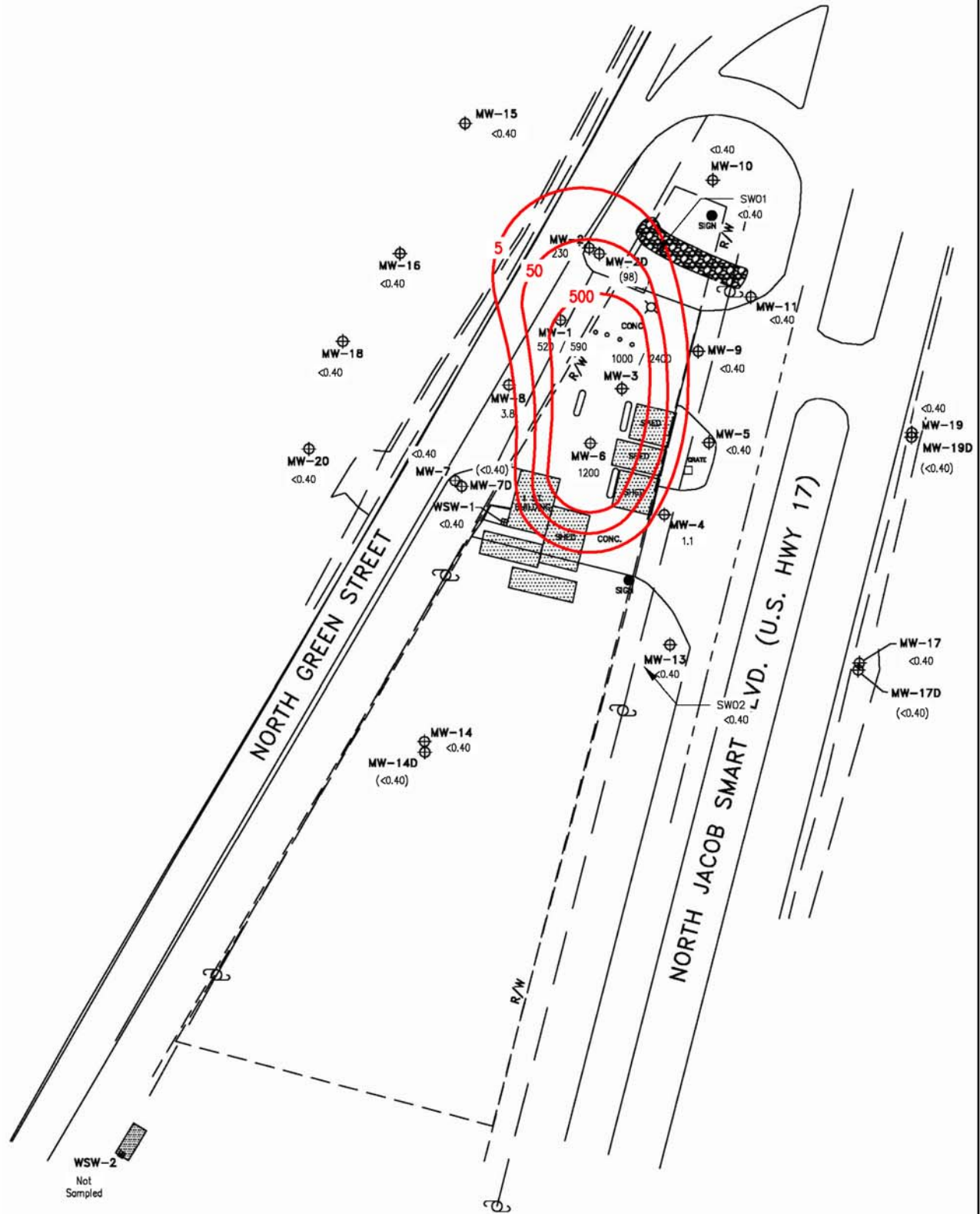


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
- 2.5J Xylenes Concentration In Micrograms Per Liter
- (2.5J) Xylenes Concentration In Micrograms Per Liter Not Used For Contouring Purpose Due To The Depth Of The Screened Interval
-  Xylenes Isoconcentration Line

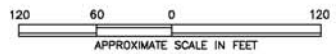


Title	Xylenes Isoconcentration Map - January 2015		
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 7d
Job No.	J14-080-A		



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- 2.5J Naphthalene Concentration in Micrograms Per Liter
- (2.5J) Naphthalene Concentration in Micrograms Per Liter Not Used For Contouring Purpose Due To The Depth Of The Screened Interval
- Naphthalene Isoconcentration Line



Title	Naphthalene Isoconcentration Map - January 2015		
Project	Burnette's Service Station (UST Permit #05288) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 7e
Job No.	J14-080-A		

**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX A**

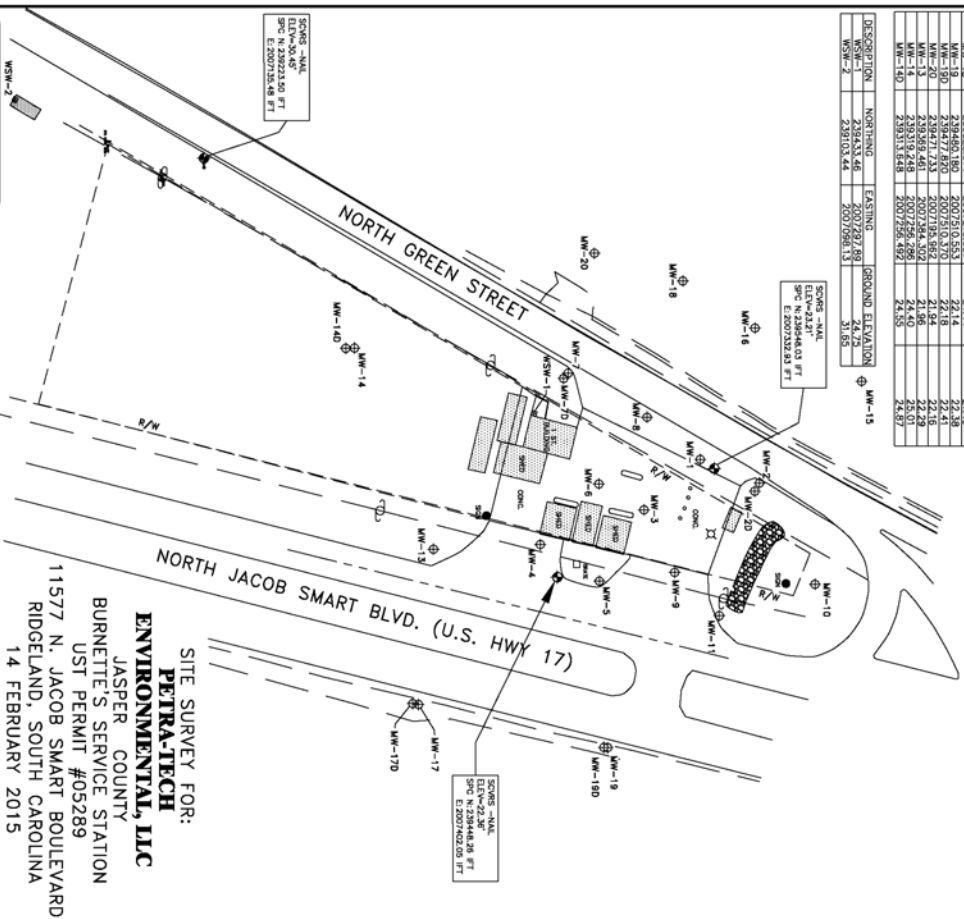
**SITE SURVEY PLAT**

**SOUTHERN**  
LAND SURVEYING

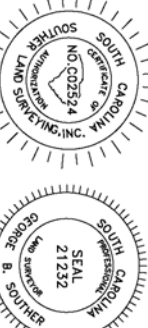
1023 ANNETT LANE HWY.  
NORFOLK, VA 23510  
TEL: 757-260-1200

DESCRIPTION	NORTHING	EASTING	TOP OF CASING/GROUND ELEVATION
WM-1	23929.810	2007292.88	23.91
WM-2	23929.810	2007292.88	23.91
WM-3	23929.810	2007292.88	23.91
WM-4	23929.810	2007292.88	23.91
WM-5	23929.810	2007292.88	23.91
WM-6	23929.810	2007292.88	23.91
WM-7	23929.810	2007292.88	23.91
WM-8	23929.810	2007292.88	23.91
WM-9	23929.810	2007292.88	23.91
WM-10	23929.810	2007292.88	23.91
WM-11	23929.810	2007292.88	23.91
WM-12	23929.810	2007292.88	23.91
WM-13	23929.810	2007292.88	23.91
WM-14	23929.810	2007292.88	23.91
WM-15	23929.810	2007292.88	23.91
WM-16	23929.810	2007292.88	23.91
WM-17	23929.810	2007292.88	23.91
WM-18	23929.810	2007292.88	23.91
WM-19	23929.810	2007292.88	23.91
WM-20	23929.810	2007292.88	23.91
WM-21	23929.810	2007292.88	23.91
WM-22	23929.810	2007292.88	23.91
WM-23	23929.810	2007292.88	23.91
WM-24	23929.810	2007292.88	23.91
WM-25	23929.810	2007292.88	23.91
WM-26	23929.810	2007292.88	23.91
WM-27	23929.810	2007292.88	23.91
WM-28	23929.810	2007292.88	23.91
WM-29	23929.810	2007292.88	23.91
WM-30	23929.810	2007292.88	23.91
WM-31	23929.810	2007292.88	23.91
WM-32	23929.810	2007292.88	23.91
WM-33	23929.810	2007292.88	23.91
WM-34	23929.810	2007292.88	23.91
WM-35	23929.810	2007292.88	23.91
WM-36	23929.810	2007292.88	23.91
WM-37	23929.810	2007292.88	23.91
WM-38	23929.810	2007292.88	23.91
WM-39	23929.810	2007292.88	23.91
WM-40	23929.810	2007292.88	23.91
WM-41	23929.810	2007292.88	23.91
WM-42	23929.810	2007292.88	23.91
WM-43	23929.810	2007292.88	23.91
WM-44	23929.810	2007292.88	23.91
WM-45	23929.810	2007292.88	23.91
WM-46	23929.810	2007292.88	23.91
WM-47	23929.810	2007292.88	23.91
WM-48	23929.810	2007292.88	23.91
WM-49	23929.810	2007292.88	23.91
WM-50	23929.810	2007292.88	23.91
WM-51	23929.810	2007292.88	23.91
WM-52	23929.810	2007292.88	23.91
WM-53	23929.810	2007292.88	23.91
WM-54	23929.810	2007292.88	23.91
WM-55	23929.810	2007292.88	23.91
WM-56	23929.810	2007292.88	23.91
WM-57	23929.810	2007292.88	23.91
WM-58	23929.810	2007292.88	23.91
WM-59	23929.810	2007292.88	23.91
WM-60	23929.810	2007292.88	23.91
WM-61	23929.810	2007292.88	23.91
WM-62	23929.810	2007292.88	23.91
WM-63	23929.810	2007292.88	23.91
WM-64	23929.810	2007292.88	23.91
WM-65	23929.810	2007292.88	23.91
WM-66	23929.810	2007292.88	23.91
WM-67	23929.810	2007292.88	23.91
WM-68	23929.810	2007292.88	23.91
WM-69	23929.810	2007292.88	23.91
WM-70	23929.810	2007292.88	23.91
WM-71	23929.810	2007292.88	23.91
WM-72	23929.810	2007292.88	23.91
WM-73	23929.810	2007292.88	23.91
WM-74	23929.810	2007292.88	23.91
WM-75	23929.810	2007292.88	23.91
WM-76	23929.810	2007292.88	23.91
WM-77	23929.810	2007292.88	23.91
WM-78	23929.810	2007292.88	23.91
WM-79	23929.810	2007292.88	23.91
WM-80	23929.810	2007292.88	23.91
WM-81	23929.810	2007292.88	23.91
WM-82	23929.810	2007292.88	23.91
WM-83	23929.810	2007292.88	23.91
WM-84	23929.810	2007292.88	23.91
WM-85	23929.810	2007292.88	23.91
WM-86	23929.810	2007292.88	23.91
WM-87	23929.810	2007292.88	23.91
WM-88	23929.810	2007292.88	23.91
WM-89	23929.810	2007292.88	23.91
WM-90	23929.810	2007292.88	23.91
WM-91	23929.810	2007292.88	23.91
WM-92	23929.810	2007292.88	23.91
WM-93	23929.810	2007292.88	23.91
WM-94	23929.810	2007292.88	23.91
WM-95	23929.810	2007292.88	23.91
WM-96	23929.810	2007292.88	23.91
WM-97	23929.810	2007292.88	23.91
WM-98	23929.810	2007292.88	23.91
WM-99	23929.810	2007292.88	23.91
WM-100	23929.810	2007292.88	23.91

DESCRIPTION	NORTHING	EASTING	GROUND ELEVATION
WSW-1	23929.810	2007292.88	24.72
WSW-2	23910.44	2007098.13	31.85



SITE SURVEY FOR:  
**PETRA-TECH ENVIRONMENTAL, LLC**  
 JASPER COUNTY  
 BURNETTE'S SERVICE STATION  
 UST PERMIT #05289  
 11577 N. JACOB SMART BOULEVARD  
 RIDGELAND, SOUTH CAROLINA  
 14 FEBRUARY 2015



- LEGEND**
- ⊕ SURFACE WATER
  - SITE WELL
  - 1/2" REBAR FOUND
  - 1/2" REBAR SET
  - PK NAIL FOUND IN ROAD
  - PK NAIL SET IN ROAD
  - FOUNTAIN POLE
  - ⊗ FOUNTAIN POLE
  - ⊗ SANITARY SEWER MH
- NOTES:**
- ALL PINS ARE 1/2" REBAR OR PK NAILS IN ROAD, UNLESS OTHERWISE NOTED.
  - THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL UNDERGROUND UTILITIES ARE NOT SHOWN AND THEIR LOCATIONS ARE UNKNOWN TO ME.
  - THIS PROPERTY IS SUBJECT TO ALL RESTRICTIONS OF RECORD AND NOT OF RECORD.
  - THIS PLAN FOR LOCATION PURPOSES ONLY, NO LAND SURVEY WAS DONE AT THIS TIME.

GEORGE B. SOUTHER  
 P.L.S. 21232  
 JOB NO. 04910



**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX B**

**WELL PURGING AND SAMPLING LOGS, CHAIN-OF-CUSTODY FORMS,  
LABORATORY ANALYTICAL DATA**



# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridgeland</u>
WELL NO: <u>MW02</u>	SAMPLE ID: <u>MW02</u> DATE: <u>11/29/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.50</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>3.01</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= ( <u>13.50</u> feet - <u>3.01</u> feet ) X <u>0.16</u> gallons/foot = <u>1.68</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
<u>1309</u>	<u>1</u>	<u>1</u>	<u>19.6</u>	<u>-</u>	<u>63</u>	<u>-</u>	<u>0.65</u>	<u>-</u>	<u>MD</u>
<u>1321</u>	<u>1</u>	<u>2</u>	<u>19.5</u>	<u>-1</u>	<u>61</u>	<u>-2</u>	<u>0.72</u>	<u>0.07</u>	<u>650</u>
<u>1334</u>	<u>1</u>	<u>3</u>	<u>19.5</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>0.78</u>	<u>0.00</u>	<u>26</u>
<u>1340</u>	<u>1</u>	<u>4</u>	<u>19.5</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>0.71</u>	<u>0.07</u>	<u>18</u>
<u>1400</u>	<u>1</u>	<u>5</u>	<u>19.5</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>0.73</u>	<u>0.02</u>	<u>9.0</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Buen</u>		SAMPLER(S) SIGNATURE(S): <u>Dalby</u>		SAMPLING DATE: <u>11/29/15</u>	SAMPLING TIME: <u>1400</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u>	Filtration Equipment Type: <u>0</u>	FILTER SIZE:	
DUPLICATE COLLECTED: <u>Y</u> <input type="checkbox"/> <u>NO</u> <input checked="" type="checkbox"/>					

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8260B</u>	<u>RFPP</u>	<u>/</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8011</u>	<u>↓</u>	<u>/</u>
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>/</u>	<u>/</u>	<u>6010</u>	<u>↓</u>	<u>/</u>

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>Burnettes</b>	SITE LOCATION: <b>Ridgeland</b>
WELL NO: <b>mw 2D</b>	SAMPLE ID: <b>Mw02D</b> DATE: <b>1/29/15</b>

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	Total Well Depth (feet): <b>40 29.66</b>	WELL SCREEN INTERVAL DEPTH: <b>25</b> feet to <b>30</b> feet	STATIC DEPTH TO WATER (feet): <b>3.78</b>	PURGE PUMP TYPE OR BAILER: <b>RFPP/B</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <b>29.66</b> feet - <b>3.78</b> feet ) X <b>0.16</b> gallons/foot = <b>4.14</b> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURB IDITY (NTU)	A	COLOR	ODOR
<b>0900</b>	<b>3.0</b>	<b>3.0</b>	<b>22.3</b>	-	<b>6.7</b>	-	<b>118</b>	-	<b>1.05</b>	-	<b>212</b>	-	<b>mu</b>	<b>Slight</b>
<b>0930</b>	<b>2.0</b>	<b>5.0</b>	<b>22</b>	<b>.3</b>	<b>6.5</b>	<b>.2</b>	<b>120</b>	<b>2</b>	<b>0.92</b>	<b>.13</b>	<b>104</b>	<b>108</b>	<b>cl</b>	
<b>1000</b>	<b>0.5</b>	<b>5.5</b>	<b>22</b>	<b>0</b>	<b>6.4</b>	<b>.1</b>	<b>120</b>	<b>0</b>	<b>0.96</b>	<b>.04</b>	<b>61</b>	<b>43</b>		
<b>1030</b>	<b>0.5</b>	<b>6.0</b>	<b>21.9</b>	<b>.1</b>	<b>6.4</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>0.95</b>	<b>.01</b>	<b>32</b>	<b>29</b>		
<b>1100</b>	<b>0.5</b>	<b>6.5</b>	<b>21.9</b>	<b>0</b>	<b>6.4</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>0.96</b>	<b>0</b>	<b>26</b>	<b>6</b>		

Dry  
Dry  
Dry  
Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <b>Daniel Burch</b>	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE: <b>1/29/15</b>	SAMPLING TIME: <b>1100</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>35</b>	TUBING MATERIAL CODE: <b>PE</b>	FIELD-FILTERED: <b>Y</b> <input checked="" type="radio"/> <b>N</b> <input type="radio"/>	FILTER SIZE: _____
DUPLICATE COLLECTED: <b>Y</b> <input checked="" type="radio"/> <b>N</b> <input type="radio"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<b>3</b>	<b>CG</b>	<b>40 ml</b>	<b>HCL</b>	<b>/</b>	<b>/</b>	<b>8260B</b>	<b>B</b>	
	<b>3</b>	<b>CG</b>	<b>40 ml</b>	<b>HCL</b>	<b>/</b>	<b>/</b>	<b>8011</b>	<b>↓</b>	
	<b>1</b>	<b>PE</b>	<b>250 ml</b>	<b>HNO3</b>	<b>/</b>	<b>/</b>	<b>6010</b>	<b>↓</b>	

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**STABILIZATION CRITERIA**  
 pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%

## GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridgeland</u>
WELL NO: <u>MW 03</u>	DATE: <u>1/29/15</u>
SAMPLE ID: <u>MW 03</u>	

### PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.17</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>3.08</u>
PURGE PUMP TYPE OR BAILER: <u>RFPP</u>			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY			
= ( <u>13.17</u> feet - <u>3.08</u> feet ) X <u>.16</u> gallons/foot = <u>1.61</u> gallons			

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1700	1	1	19.6	6.6	125	.96	1600	Blk	Y
1715	1	2	19.5	6.3	121	.62	1000	Blk	
1730	1	3	19.5	6.3	121	.51	291	Blk	
1745	1	4	19.5	6.2	121	.52	285	Blk	
1800	1.5	5.5	19.4	6.2	121	.49	281	Blk	
1815	1.5	7.0	19.4	6.2	120	.49	286	Blk	
1830	1.5	8.5	19.4	6.2	121	.50	289	Blk	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.98

### SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Brien</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1830</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	FILTER SIZE: _____
DUPLICATE COLLECTED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	3	CG	40 ml	HCL	/	/	8260B	RFPP	
	3	CG	40 ml	HCL	/	/	8011	/	
	1	PE	250 ml	HNO3	/	/	6010	/	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

#### STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Bucette</u>	SITE LOCATION: <u>Ridgeland</u>
WELL NO: <u>MW04</u>	DATE: <u>1/29/15</u>
SAMPLE ID: <u>MW04</u>	

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.46</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>2.41</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= ( <u>13.46</u> feet - <u>2.41</u> feet ) X <u>.16</u> gallons/foot = <u>1.77</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURBIDITY (NTU)	A	COLOR	ODOR
<u>0732</u>	<u>2.5</u>	<u>2.5</u>	<u>19.8</u>	-	<u>6.8</u>	-	<u>111</u>	-	<u>1.04</u>	-	<u>1100</u>	-	<u>BLK</u>	<u>Slight</u>
<u>0740</u>	<u>1.0</u>	<u>3.5</u>	<u>19.6</u>	<u>.2</u>	<u>6.5</u>	<u>.3</u>	<u>107</u>	<u>4</u>	<u>1.23</u>	<u>.19</u>	<u>202</u>	-	<u>CL</u>	<u>↓</u>
<u>0756</u>	<u>1.5</u>	<u>5.0</u>	<u>19.6</u>	<u>†</u>	<u>6.3</u>	<u>.2</u>	<u>105</u>	<u>2</u>	<u>1.21</u>	<u>.02</u>	<u>61</u>	<u>141</u>		
<u>0811</u>	<u>1.0</u>	<u>6.0</u>	<u>19.6</u>	<u>†</u>	<u>6.3</u>	<u>†</u>	<u>105</u>	<u>†</u>	<u>1.20</u>	<u>.01</u>	<u>20</u>	<u>41</u>		
<u>0820</u>	<u>1.5</u>	<u>7.5</u>	<u>19.6</u>	<u>†</u>	<u>6.3</u>	<u>†</u>	<u>105</u>	<u>†</u>	<u>1.2</u>	<u>.01</u>	<u>8.8</u>	<u>12</u>		<u>↓</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Burch</u>	SAMPLE(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>0820</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	FILTER SIZE: <u>0</u>
DUPLICATE COLLECTED: <u>Y</u> <input type="checkbox"/> <u>6</u> <input checked="" type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8260B</u>	<u>RFPP</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8011</u>		
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	/	/	<u>6010</u>		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridgeland</u>
WELL NO: <u>MW5</u>	SAMPLE ID: <u>MW05</u> DATE: <u>1/29/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.50</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>2.88</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <u>13.50</u> feet - <u>2.88</u> feet ) X <u>0.16</u> gallons/foot = <u>1.70</u> gallons									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (uS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
<u>0818</u>	<u>2.0</u>	<u>2.6</u>	<u>20.1</u>	<u>-</u>	<u>77</u>	<u>-</u>	<u>151</u>	<u>01</u>	<u>N</u>
<u>0839</u>	<u>2.0</u>	<u>4.0</u>	<u>20</u>	<u>0.1</u>	<u>78</u>	<u>0.1</u>	<u>62</u>	<u>99</u>	
<u>0843</u>	<u>1.5</u>	<u>5.5</u>	<u>20</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>31</u>	<u>3</u>	
<u>0852</u>	<u>1.5</u>	<u>7.0</u>	<u>20</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>18</u>	<u>3</u>	
<u>0900</u>	<u>1.0</u>	<u>8.0</u>	<u>20</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>8.1</u>	<u>10</u>	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Brown</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			SAMPLING DATE: <u>1/29/15</u>		SAMPLING TIME: <u>0900</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>				TUBING MATERIAL CODE: <u>PE</u>			FIELD-FILTERED: <u>Y</u> (N)		FILTER SIZE:	
DUPLICATE COLLECTED: <u>Y</u> (N)										
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH		<u>RFPP</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8260B</u>			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8011</u>			
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>/</u>	<u>/</u>	<u>6010</u>			
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = Ater Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%





## GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridge land</u>
WELL NO: <u>MW07</u>	SAMPLE ID: <u>MW07</u> DATE: <u>1/29/15</u>

### PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.57</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>2.64</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) x WELL CAPACITY = ( <u>13.57</u> - <u>2.64</u> ) x <u>16</u> gallons/foot = <u>1.75</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
<u>1600</u>	<u>-</u>	<u>-</u>	<u>20.5</u>	<u>-</u>	<u>7.0</u>	<u>-</u>	<u>195</u>	<u>-</u>	<u>1.04</u>
<u>1610</u>	<u>1.5</u>	<u>1.5</u>	<u>20.3</u>	<u>0.2</u>	<u>6.4</u>	<u>0.6</u>	<u>164</u>	<u>31</u>	<u>1.26</u>
<u>1620</u>	<u>1.5</u>	<u>3.0</u>	<u>20.3</u>	<u>0</u>	<u>6.3</u>	<u>0.1</u>	<u>164</u>	<u>0</u>	<u>1.31</u>
<u>1630</u>	<u>1.5</u>	<u>4.5</u>	<u>20.3</u>	<u>0</u>	<u>6.3</u>	<u>0</u>	<u>163</u>	<u>1</u>	<u>1.29</u>
<u>1640</u>	<u>1.5</u>	<u>6.0</u>	<u>20.3</u>	<u>0</u>	<u>6.3</u>	<u>0</u>	<u>163</u>	<u>0</u>	<u>1.29</u>
<u>1650</u>	<u>1.5</u>	<u>7.5</u>	<u>20.2</u>	<u>0.1</u>	<u>6.2</u>	<u>0.1</u>	<u>164</u>	<u>1</u>	<u>1.30</u>
<u>1700</u>	<u>1.5</u>	<u>9.0</u>	<u>20.2</u>	<u>0</u>	<u>6.2</u>	<u>0</u>	<u>163</u>	<u>1</u>	<u>1.31</u>

WELL CAPACITY (Gallons Per Foot)    0.75" = 0.02;    1" = 0.04;    1.25" = 0.06;    2" = 0.16;    3" = 0.37;    4" = 0.65;    5" = 1.02;    6" = 1.47;    12" = 5.98

### SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Burch</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1700</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>1.1</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u> (R)      FILTER SIZE: <u>0</u>	Filtration Equipment Type: <u>0</u>
DUPLICATE COLLECTED: <u>Y</u> (R)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8260B</u>	<u>RFPP</u>	<u>/</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8011</u>	<u>/</u>	<u>/</u>
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>/</u>	<u>/</u>	<u>6010</u>	<u>/</u>	<u>/</u>

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

#### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burkettes</u>	SITE LOCATION: <u>Ridgeland</u>
WELL NO: <u>MW7D</u>	SAMPLE ID: <u>MW07D</u> DATE: <u>1/29/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>32.11</u>	WELL SCREEN INTERVAL DEPTH <u>2.7</u> feet to <u>39</u> feet	STATIC DEPTH TO WATER (feet): <u>5.32</u>	PURGE PUMP TYPE OR BAILER: <u>B</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= ( <u>32.11</u> feet - <u>5.32</u> feet ) X <u>.16</u> gallons/foot = <u>4.29</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP (°C)	A	pH (su)	A	COND. (µS)	A	DO (mg/L)	A	TURBIDITY (NTU)	A	COLOR	ODOR
0300	4.0	4.0	20.2	-	6.6	-	165	-	1.79	-	1100	-	Blk	N
0330	1.0	5.0	20	⊕	6.5	⊖	104	1	1.75	164	211	~800 C1		
0400	0.5	5.5	20	⊕	6.5	⊖	103	1	1.68	109	161	110		
0445	0.5	6.0	19.9	⊖	6.4	⊖	100	3	1.89	10	74	27		
0515	0.5	6.5	19.9	⊕	6.4	⊕	100	⊕	1.70	161	64	10		

Dry  
 Dry  
 Dry  
 Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04, 1.25" = 0.06, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Buch</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>0515</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>35</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) <input type="checkbox"/>	FILTER SIZE: _____
DUPLICATE COLLECTED: Y <input type="checkbox"/> (N) <input checked="" type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	3	CG	40 ml	HCL	/	/	8260B	B ↓	
	3	CG	40 ml	HCL	/	/	8011		
	1	PE	250 ml	HNO3	/	/	6010		

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridge land</u>
WELL NO: <u>Mw08</u>	DATE: <u>1/29/15</u>
SAMPLE ID: <u>Mw08</u>	

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.41</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>2.70</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <u>13.41</u> feet - <u>2.70</u> feet ) X <u>0.16</u> gallons/foot = <u>1.71</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURBIDITY (NTU)	A	COLOR	ODOR
<u>1100</u>	<u>1</u>	<u>1</u>	<u>19.9</u>	<u>-</u>	<u>6.1</u>	<u>-</u>	<u>65</u>	<u>-</u>	<u>1.04</u>	<u>-</u>	<u>126</u>	<u>-</u>	<u>01</u>	<u>N</u>
<u>1114</u>	<u>1</u>	<u>2</u>	<u>19.7</u>	<u>2</u>	<u>6.0</u>	<u>0.1</u>	<u>68</u>	<u>3</u>	<u>1.09</u>	<u>0.05</u>	<u>85</u>	<u>41</u>		
<u>1126</u>	<u>1.5</u>	<u>3.5</u>	<u>19.7</u>	<u>0</u>	<u>6.0</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>1.01</u>	<u>0.08</u>	<u>29</u>	<u>56</u>		
<u>1131</u>	<u>1</u>	<u>4.5</u>	<u>19.7</u>	<u>0</u>	<u>6.0</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>1.05</u>	<u>0.04</u>	<u>18</u>	<u>11</u>		
<u>1142</u>	<u>1</u>	<u>5.5</u>	<u>19.6</u>	<u>0.1</u>	<u>6.0</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>1.05</u>	<u>0</u>	<u>12</u>	<u>6</u>		
<u>1147</u>	<u>1</u>	<u>6.5</u>	<u>19.7</u>	<u>0.1</u>	<u>5.9</u>	<u>0.1</u>	<u>67</u>	<u>1</u>	<u>1.04</u>	<u>0.01</u>	<u>8.6</u>	<u>4</u>		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Buch</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1147</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u> (N) FILTER SIZE: <u>0</u>	Filtration Equipment Type: <u>0</u>
DUPLICATE COLLECTED: <u>Y</u> (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8260B</u>	<u>RFPP</u> ↓	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8011</u>		
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	/	/	<u>6010</u>		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridgeland</u>
WELL NO: <u>MW09</u>	SAMPLE ID: <u>MW09</u> DATE: <u>1/29/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.62</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>2.02</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>										
WELL VOLUME PURGE: <u>1</u> WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <u>13.62</u> feet - <u>2.02</u> feet ) X <u>0.16</u> gallons/foot = <u>1.86</u> gallons														
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURBIDITY (NTU)	A	COLOR	ODOR
<u>0848</u>	<u>3.0</u>	<u>3.0</u>	<u>19.9</u>	-	<u>5.8</u>	-	<u>142</u>	-	<u>1.86</u>	-	<u>1100</u>	-	<u>82</u>	<u>N</u>
<u>0907</u>	<u>1.5</u>	<u>4.5</u>	<u>19.8</u>	<u>0.1</u>	<u>5.9</u>	<u>0.1</u>	<u>140</u>	<u>2</u>	<u>1.92</u>	<u>0.00</u>	<u>206</u>	-	<u>C1</u>	<u>1</u>
<u>0913</u>	<u>1.0</u>	<u>5.5</u>	<u>19.8</u>	<u>0.1</u>	<u>6.0</u>	<u>0.1</u>	<u>138</u>	<u>2</u>	<u>1.91</u>	<u>0.01</u>	<u>104</u>	<u>102</u>	<u>1</u>	<u>1</u>
<u>0922</u>	<u>1.5</u>	<u>7.0</u>	<u>19.8</u>	<u>0.1</u>	<u>6.0</u>	<u>0.1</u>	<u>138</u>	<u>0.1</u>	<u>1.90</u>	<u>0.01</u>	<u>44</u>	<u>60</u>	<u>1</u>	<u>1</u>
<u>0930</u>	<u>1</u>	<u>8</u>	<u>19.8</u>	<u>0.1</u>	<u>6.0</u>	<u>0.1</u>	<u>138</u>	<u>0.1</u>	<u>1.91</u>	<u>0.01</u>	<u>8.1</u>	<u>36</u>	<u>1</u>	<u>1</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04, 1.25" = 0.06, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 12" = 5.88														

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Burch</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING DATE: <u>1/29/15</u>		SAMPLING TIME: <u>0930</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>				TUBING MATERIAL CODE: <u>PE</u>				FIELD-FILTERED: <u>Y</u> <input checked="" type="checkbox"/>		FILTER SIZE: <u>0</u>	
DUPLICATE COLLECTED: <u>Y</u> <input checked="" type="checkbox"/>											
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH		<u>RFPP</u>			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8260B</u>	<u>1</u>	<u>/</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8011</u>	<u>1</u>	<u>/</u>		
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>/</u>	<u>/</u>	<u>6010</u>	<u>1</u>	<u>/</u>		
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%

## GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridgeland SC</u>
WELL NO: <u>MW 10</u>	SAMPLE ID: <u>MW10</u> DATE: <u>1/29/15</u>

### PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.30</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>0.47</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <u>13.30</u> feet - <u>0.47</u> feet ) X <u>0.16</u> gallons/foot = <u>2.05</u> gallons									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
<u>0920</u>	-	-	<u>20.4</u>	<u>5.9</u>	<u>74</u>	<u>1.96</u>	<u>246</u>	<u>cloud</u>	<u>N</u>
<u>0930</u>	<u>1.5</u>	<u>1.5</u>	<u>20.1</u>	<u>6.0</u>	<u>71</u>	<u>1.87</u>	<u>118</u>	<u>clear</u>	<u>N</u>
<u>0937</u>	<u>1</u>	<u>2.5</u>	<u>20.1</u>	<u>6.0</u>	<u>71</u>	<u>1.90</u>	<u>82</u>		
<u>0948</u>	<u>1</u>	<u>3.5</u>	<u>20</u>	<u>6.0</u>	<u>71</u>	<u>1.88</u>	<u>25</u>		
<u>0956</u>	<u>1</u>	<u>4.5</u>	<u>20</u>	<u>6.0</u>	<u>71</u>	<u>1.89</u>	<u>19</u>		
<u>1008</u>	<u>1</u>	<u>5.5</u>	<u>20.1</u>	<u>6.2</u>	<u>69</u>	<u>1.88</u>	<u>13</u>		
<u>1016</u>	<u>1</u>	<u>6.5</u>	<u>20.1</u>	<u>6.1</u>	<u>71</u>	<u>1.84</u>	<u>18</u>		
<u>1021</u>	<u>1</u>	<u>7.5</u>	<u>20</u>	<u>6.1</u>	<u>71</u>	<u>1.88</u>	<u>11</u>		
<u>1030</u>	<u>1</u>	<u>8.5</u>	<u>20</u>	<u>6.1</u>	<u>70</u>	<u>1.89</u>	<u>10</u>		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

### SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Burch</u>		SAMPLER(S) SIGNATURE(S): <u>Daniel Burch</u>		SAMPLING DATE: <u>1/29/15</u>		SAMPLING TIME: <u>1030</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>		TUBING MATERIAL CODE: <u>PE</u>		FIELD-FILTERED: <u>Y</u> (with circled N)		FILTER SIZE:			
DUPLICATE COLLECTED: <u>Y</u> (with circled N)									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH		<u>RFPP</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8260B</u>		/
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8011</u>		/
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	/	/	<u>6010</u>		/
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

#### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridge Lane</u>
WELL NO: <u>mw 11</u>	SAMPLE ID: <u>mw11</u> DATE: <u>1/29/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.51</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>0.73</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>										
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <u>13.51</u> feet - <u>0.73</u> feet ) X <u>.16</u> gallons/foot = <u>2.04</u> gallons														
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURBIDITY (NTU)	A	COLOR	ODOR
0915	1	1	19.4	-	6.6	-	58	-	1.01	-	204	-	cl	N
0920	1	2	19.4	0	6.5	0.1	60	2	1.21	20	111	98	cl	N
0928	1	3	19.3	.1	6.5	0	60	0	1.26	109	52	59		
0936	1	4	19.3	0	6.5	0	60	0	1.24	102	21	31		
0939	1	5	19.3	0	6.5	0	60	0	1.21	103	17	4		
0946	1	6	19.2	.1	6.4	.1	62	2	1.29	108	13	4		
0953	1	7	19.2	0	6.4	0	60	0	1.28	101	12	1		
1000	1	8	19.2	0	6.5	.1	60	0	1.26	112	7.6	5		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.86														

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Buch</u>				SAMPLE(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING DATE: <u>1/29/15</u>		SAMPLING TIME: <u>1000</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>				TUBING MATERIAL CODE: <u>PE</u>				FIELD-FILTERED: <u>Y</u> (R) FILTER SIZE:		Filtration Equipment Type: <u>0</u>	
DUPLICATE COLLECTED: <u>Y</u> (0)											
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH					
	3	CG	40 ml	HCL	/	/	8260B	<u>RFPP</u>	/		
	3	CG	40 ml	HCL	/	/	8011	/	/		
	1	PE	250 ml	HNO3	/	/	6010	/	/		
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = Ater Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤10 NTU or ±10%

## GROUNDWATER SAMPLING LOG

SITE NAME: <b>Burnette</b>	SITE LOCATION: <b>Ridge Road</b>
WELL NO: <b>mw 13</b>	SAMPLE ID: <b>mw13</b>
DATE: <b>1/29/15</b>	

### PURGING DATA

WELL DIAMETER (inches): <b>2</b>	Total Well Depth (feet): <b>13.49</b>	WELL SCREEN INTERVAL DEPTH: <b>13</b> feet to <b>3</b> feet	STATIC DEPTH TO WATER (feet): <b>1.36</b>	PURGE PUMP TYPE OR BAILER: <b>RFPP</b>					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <b>13.49</b> feet - <b>1.36</b> feet ) X <b>0.16</b> gallons/foot = <b>1.94</b> gallons									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (uS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
0706	1	1	21.0	6.6	111	1.87	11000	BLK	N
0715	1	2	20.8	6.2	105	1.65	161	C1	
0725	1	3	20.7	6.1	101	1.62	75	86	
0731	1	4	20.6	6.0	101	1.61	25	50	
0746	1	5	20.6	6.0	101	1.60	19	6	
0752	1	6	20.6	6.0	102	1.60	13	6	
0800	1	7	20.6	6.0	101	1.59	9.6	3	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

### SAMPLING DATA

SAMPLED BY (PRINT): <b>Daniel Bush</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING DATE: <b>1/29/15</b>	SAMPLING TIME: <b>0800</b>						
PUMP OR TUBING DEPTH IN WELL (feet): <b>11</b>	TUBING MATERIAL CODE: <b>PE</b>	FIELD-FILTERED: <b>Y</b>	FILTER SIZE: <b>N</b>						
DUPLICATE COLLECTED: <b>Y</b> <input checked="" type="radio"/> <b>N</b> <input type="radio"/>									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	3	CG	40 ml	HCL	/	/	8260B	<b>RFPP</b>	/
	3	CG	40 ml	HCL	/	/	8011		
	1	PE	250 ml	HNO3	/	/	8010		
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = Ater Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

#### STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%

## GROUNDWATER SAMPLING LOG

SITE NAME: <b>Burnettes</b>	SITE LOCATION: <b>Ridgekneel</b>
WELL NO: <b>mw 14</b>	SAMPLE ID: <b>mw14</b>
DATE: <b>1/29/15</b>	

### PURGING DATA

WELL DIAMETER (inches): <b>2</b>	Total Well Depth (feet): <b>13.31</b>	WELL SCREEN INTERVAL DEPTH: <b>3 feet to 3 feet</b>	STATIC DEPTH TO WATER (feet): <b>1.28</b>	PURGE PUMP TYPE OR BAILER: <b>Rfpp</b>										
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <b>13.31 feet - 1.28 feet</b> ) X <b>.16</b> gallons/foot = <b>1.92</b> gallons														
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURBIDITY (NTU)	A	COLOR	ODOR
0610	1	1	19.8	-	6.3	-	111	-	1.55	-	4600	-	Bk	N
0615	1	2	19.8	+	6.2	.1	110	1	1.59	104	121	-	cl	N
0627	1	3	19.8	+	6.1	0.1	110	+	1.60	101	44	77		
0630	1	4	19.8	+	6.1	+	110	+	1.60	+	21	23		
0636	1	5	19.8	+	6.1	+	110	+	1.61	0.1	18	3		
0642	1	6	19.7	.1	6.2	.1	108	2	1.56	0.5	13	5		
0650	1	7	19.6	.1	6.1	.1	106	2	1.59	0.3	11	2		
0700	1	8	19.6	+	6.2	.1	106	+	1.58	0.1	8.6	3	✓	↓
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88														

### SAMPLING DATA

SAMPLED BY (PRINT): <b>Daniel Buch</b>				SAMPLE(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING DATE: <b>1/29/15</b>		SAMPLING TIME: <b>0700</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>11</b>				TUBING MATERIAL CODE: <b>PE</b>				FIELD-FILTERED: <b>Y</b>		FILTER SIZE: <b>0</b>	
DUPLICATE COLLECTED: <b>Y</b>											
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH					
	3	CG	40 ml	HCL	/	/	8260B	<b>Rfpp</b>	/		
	3	CG	40 ml	HCL	/	/	8011		/		
	1	PE	250 ml	HNO3	/	/	8010		/		
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = Ater Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

#### STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%



# GROUNDWATER SAMPLING LOG

SITE NAME: <b>Burnettes</b>	SITE LOCATION: <b>Ridgeland</b>
WELL NO: <b>MW 14D</b>	SAMPLE ID: <b>MW14D</b> DATE: <b>1/29/15</b>

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	Total Well Depth (feet): <b>23.45</b>	WELL SCREEN INTERVAL DEPTH: <b>18</b> feet to <b>23</b> feet	STATIC DEPTH TO WATER (feet): <b>8.80</b>	PURGE PUMP TYPE OR BAILER: <b>RFPP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <b>23.45</b> feet - <b>8.80</b> feet ) X <b>.16</b> gallons/foot = <b>2.34</b> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
<b>0630</b>	<b>4.0</b>	<b>4.0</b>	<b>20.4</b>	<b>-</b>	<b>6.5</b>	<b>-</b>	<b>111</b>	<b>-</b>	<b>.94</b>	<b>-</b>	<b>11000</b>	<b>-</b>	<b>BLK</b>	<b>mid</b>
<b>0645</b>	<b>0.5</b>	<b>4.5</b>	<b>20.2</b>	<b>.2</b>	<b>6.3</b>	<b>.2</b>	<b>112</b>	<b>1</b>	<b>.90</b>	<b>104</b>	<b>201</b>	<b>-</b>	<b>CI</b>	<b>↓</b>
<b>0700</b>	<b>0.5</b>	<b>5.0</b>	<b>20</b>	<b>.2</b>	<b>6.3</b>	<b>.2</b>	<b>113</b>	<b>1</b>	<b>.92</b>	<b>102</b>	<b>61</b>	<b>140</b>	<b>1</b>	<b>↓</b>
<b>0715</b>	<b>0.5</b>	<b>5.5</b>	<b>20</b>	<b>.2</b>	<b>6.3</b>	<b>.2</b>	<b>113</b>	<b>.2</b>	<b>.90</b>	<b>102</b>	<b>64</b>	<b>3</b>	<b>1</b>	<b>↓</b>
<b>0730</b>	<b>0.5</b>	<b>6.0</b>	<b>20</b>	<b>.2</b>	<b>6.3</b>	<b>.2</b>	<b>113</b>	<b>.2</b>	<b>.91</b>	<b>101</b>	<b>69</b>	<b>5</b>	<b>1</b>	<b>↓</b>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <b>Daniel Burn</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING DATE: <b>1/29/15</b>	SAMPLING TIME: <b>0730</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>20</b>	TUBING MATERIAL CODE: <b>PE</b>	FIELD-FILTERED: <b>Y</b> (R)	FILTER SIZE:
DUPLICATE COLLECTED: <b>Y</b> (R)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<b>3</b>	<b>CG</b>	<b>40 ml</b>	<b>HCL</b>	/	/	<b>8260B</b>	<b>RFPP</b>	
	<b>3</b>	<b>CG</b>	<b>40 ml</b>	<b>HCL</b>	/	/	<b>8011</b>	/	
	<b>1</b>	<b>PE</b>	<b>250 ml</b>	<b>HNO3</b>	/	/	<b>6010</b>	/	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridgeland, SC</u>
WELL NO: <u>MW15</u>	SAMPLE ID: <u>MW15</u>
DATE: <u>1/29/15</u>	

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.41</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>700</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= ( <u>13.41</u> feet - <u>0</u> feet ) X <u>.16</u> gallons/foot = <u>2.15</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURB IDITY (NTU)	A	COLOR	ODOR
<u>1331</u>	<u>1</u>	<u>1</u>	<u>20.1</u>	<u>-</u>	<u>6.5</u>	<u>-</u>	<u>111</u>	<u>-</u>	<u>1.04</u>	<u>-</u>	<u>425</u>	<u>-</u>	<u>MURK</u>	<u>N</u>
<u>1344</u>	<u>1</u>	<u>2</u>	<u>20.1</u>	<u>0</u>	<u>6.3</u>	<u>2</u>	<u>111</u>	<u>0</u>	<u>1.06</u>	<u>.02</u>	<u>110</u>	<u>35</u>	<u>1</u>	
<u>1353</u>	<u>1</u>	<u>3</u>	<u>20.1</u>	<u>0</u>	<u>6.3</u>	<u>0</u>	<u>113</u>	<u>2</u>	<u>1.01</u>	<u>.05</u>	<u>55</u>	<u>55</u>	<u>C1</u>	
<u>1407</u>	<u>1</u>	<u>4</u>	<u>20.1</u>	<u>0</u>	<u>6.3</u>	<u>0</u>	<u>113</u>	<u>0</u>	<u>1.02</u>	<u>.01</u>	<u>19</u>	<u>36</u>		
<u>1414</u>	<u>1</u>	<u>5</u>	<u>20.0</u>	<u>.1</u>	<u>6.2</u>	<u>.1</u>	<u>109</u>	<u>4</u>	<u>1.03</u>	<u>.01</u>	<u>12</u>	<u>7</u>		
<u>1419</u>	<u>1</u>	<u>6</u>	<u>20.0</u>	<u>0</u>	<u>6.2</u>	<u>0</u>	<u>112</u>	<u>3</u>	<u>1.03</u>	<u>0</u>	<u>15</u>	<u>3</u>		
<u>1426</u>	<u>1</u>	<u>7</u>	<u>20.0</u>	<u>0</u>	<u>6.1</u>	<u>.1</u>	<u>114</u>	<u>2</u>	<u>1.04</u>	<u>.01</u>	<u>18</u>	<u>3</u>		
<u>1430</u>	<u>1</u>	<u>8</u>	<u>20.1</u>	<u>.1</u>	<u>6.1</u>	<u>0</u>	<u>113</u>	<u>1</u>	<u>1.05</u>	<u>.01</u>	<u>10</u>	<u>8</u>		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04, 1.25" = 0.06, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Burch</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1430</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>10</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>	FILTER SIZE: _____
DUPLICATE COLLECTED: <u>Y</u> <input type="radio"/> <u>N</u> <input checked="" type="radio"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8280B</u>	<u>RFPP</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8011</u>	<u>/</u>	
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>/</u>	<u>/</u>	<u>6010</u>	<u>/</u>	

REMARKS: \_\_\_\_\_

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridgeland, SC</u>
WELL NO: <u>mw 1b</u>	SAMPLE ID: <u>mw1b</u> DATE: <u>1/24/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>15.45</u>	WELL SCREEN INTERVAL DEPTH: <u>15.45</u> feet to <u>15.45</u> feet	STATIC DEPTH TO WATER (feet): <u>3.42</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= ( <u>15.45</u> feet - <u>3.42</u> feet ) X <u>0.16</u> gallons/foot = <u>1.92</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1440	1	1	19.7	5.8	99	1.05	118	CL	N
1449	1	2	19.5	6.0	97	1.12	107.61	57	
1456	1	3	19.5	6.0	97	1.17	109.26	35	
1500	1.5	4.5	19.5	6.0	97	1.21	104.08	2	
1509	1.5	6.0	19.4	6.1	96	1.21	101.76	12	
1515	1	7	19.3	6.1	94	1.22	101.15	1	
1521	1	8	19.3	6.2	94	1.20	102.12	3	
1530	1.5	9.5	19.3	6.1	95	1.20	101.0	2	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Buren</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/24/15</u>	SAMPLING TIME: <u>1530</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u> (N) <input checked="" type="radio"/>	FILTER SIZE: _____
DUPLICATE COLLECTED: <u>Y</u> <input checked="" type="radio"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	3	CG	40 ml	HCL	/	/	8280B	RFPP	
	3	CG	40 ml	HCL	/	/	8011	/	
	1	PE	250 ml	HNO3	/	/	6010	/	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridge land</u>
WELL NO: <u>Mw 17</u>	SAMPLE ID: <u>Mw17</u> DATE: <u>1/29/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.60</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>1.92</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>										
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <u>13.60</u> feet - <u>1.92</u> feet ) X <u>0.16</u> gallons/foot = <u>1.87</u> gallons														
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR					
<u>1100</u>	<u>2.0</u>	<u>2.0</u>	<u>21.0</u>	<u>-</u>	<u>6.3</u>	<u>-</u>	<u>84</u>	<u>-</u>	<u>1.71</u>	<u>-</u>	<u>166</u>	<u>-</u>	<u>Cl</u>	<u>~</u>
<u>1120</u>	<u>1.5</u>	<u>3.5</u>	<u>20.9</u>	<u>.1</u>	<u>6.6</u>	<u>3</u>	<u>86</u>	<u>2</u>	<u>1.65</u>	<u>.06</u>	<u>55</u>	<u>111</u>	<u> </u>	<u> </u>
<u>1130</u>	<u>1.5</u>	<u>5.0</u>	<u>20.7</u>	<u>.2</u>	<u>6.0</u>	<u>8</u>	<u>86</u>	<u>8</u>	<u>1.64</u>	<u>.01</u>	<u>22</u>	<u>33</u>	<u> </u>	<u> </u>
<u>1148</u>	<u>1.0</u>	<u>6</u>	<u>20.7</u>	<u>8</u>	<u>6.0</u>	<u>8</u>	<u>86</u>	<u>8</u>	<u>1.64</u>	<u>8</u>	<u>15</u>	<u>6</u>	<u> </u>	<u> </u>
<u>1155</u>	<u>1.0</u>	<u>7</u>	<u>20.7</u>	<u>8</u>	<u>6.0</u>	<u>8</u>	<u>86</u>	<u>8</u>	<u>1.64</u>	<u>8</u>	<u>5.8</u>	<u>10</u>	<u> </u>	<u> </u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.68														

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Panel Buch</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1155</u>						
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u> <input checked="" type="radio"/> <u>1</u>	FILTER SIZE: <u>1</u>						
DUPLICATE COLLECTED: <u>Y</u> <input checked="" type="radio"/> <u>1</u>									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8260B</u>	<u>RFPP</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8011</u>	<u> </u>	
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>/</u>	<u>/</u>	<u>6010</u>	<u>/</u>	
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>Burnettes</b>	SITE LOCATION: <b>Ridgeland</b>
WELL NO: <b>MW 17D</b>	DATE: <b>1/29/15</b>
SAMPLE ID: <b>MW17D</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	Total Well Depth (feet): <b>30.37</b>	WELL SCREEN INTERVAL DEPTH: <b>25</b> feet to <b>30</b> feet	STATIC DEPTH TO WATER (feet): <b>7.61</b>	PURGE PUMP TYPE OR BAILER: <b>B</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= ( <b>30.37</b> feet - <b>7.61</b> feet ) X <b>.16</b> gallons/foot = <b>364</b> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURBIDITY (NTU)	A	COLOR	ODOR
<b>0910</b>	<b>4.5</b>	<b>4.5</b>	<b>21.1</b>	-	<b>5.7</b>	-	<b>56</b>	-	<b>1.04</b>	-	<b>1000</b>	-	<b>more</b>	<b>N</b>
<b>1000</b>	<b>1.5</b>	<b>6.0</b>	<b>21</b>	<b>.1</b>	<b>5.8</b>	<b>.1</b>	<b>60</b>	<b>6</b>	<b>1.00</b>	<b>.04</b>	<b>101</b>	-	<b>C1</b>	
<b>1030</b>	<b>0.5</b>	<b>6.5</b>	<b>20.9</b>	<b>.1</b>	<b>5.9</b>	<b>.1</b>	<b>60</b>	<b>8</b>	<b>1.01</b>	<b>.01</b>	<b>22</b>	<b>79</b>		
<b>1110</b>	<b>0.5</b>	<b>7.0</b>	<b>20.9</b>	<b>+</b>	<b>5.9</b>	<b>+</b>	<b>59</b>	<b>1</b>	<b>1.01</b>	<b>0</b>	<b>64</b>	<b>42</b>		
<b>1230</b>	<b>0.5</b>	<b>7.5</b>	<b>20.9</b>	<b>+</b>	<b>5.9</b>	<b>+</b>	<b>59</b>	<b>0</b>	<b>0.99</b>	<b>.02</b>	<b>53</b>	<b>11</b>		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 6.88

Dry  
Dry  
Dry  
Dry

## SAMPLING DATA

SAMPLED BY (PRINT): <b>Daniel Brown</b>	SAMPLE(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING DATE: <b>1/29/15</b>	SAMPLING TIME: <b>1230</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>35</b>	TUBING MATERIAL CODE: <b>PE</b>	FIELD-FILTERED: <b>Y</b>	FILTER SIZE: <b>0</b>
DUPLICATE COLLECTED: <b>Y</b>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<b>3</b>	<b>CG</b>	<b>40 ml</b>	<b>HCL</b>	/	/	<b>8260B</b>	<b>B</b>	
	<b>3</b>	<b>CG</b>	<b>40 ml</b>	<b>HCL</b>	/	/	<b>8011</b>		
	<b>1</b>	<b>PE</b>	<b>250 ml</b>	<b>HNO3</b>	/	/	<b>6010</b>		

REMARKS:

MATERIAL CODES: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, PP = Polypropylene, S = Silicone, T = Teflon, O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤ 10 NTU or ±10%

## GROUNDWATER SAMPLING LOG

SITE NAME: <b>Burnettes</b>	SITE LOCATION: <b>Ridgeland, SC</b>
WELL NO: <b>Mw18</b>	SAMPLE ID: <b>Mw18</b> DATE: <b>1/29/15</b>

### PURGING DATA

WELL DIAMETER (inches): <b>2</b>	Total Well Depth (feet): <del>143</del> <b>1453</b>	WELL SCREEN INTERVAL DEPTH: <del>143</del> feet to <del>116</del> feet	STATIC DEPTH TO WATER (feet): <b>3.01</b>	PURGE PUMP TYPE OR BAILER: <b>RFPP</b>					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <b>14.53</b> feet - <b>3.01</b> feet ) X <b>0.16</b> gallons/foot = <b>1.84</b> gallons									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1411	1	1	20.6	5.7	66	1.01	142	1	N
1419	1	2	20.5	5.7	74	1.27	50	2	N
1425	1	3	20.5	5.8	72	1.26	18	3	N
1432	1	4	20.4	5.8	72	1.25	15	3	N
1438	1	5	20.4	5.8	72	1.25	10	5	N
1545	1	6	20.3	5.6	70	1.25	18	8	N
1552	1	7	20.3	5.7	71	1.27	12	6	N
1600	1	8	20.3	5.7	71	1.27	10	2	N
WELL CAPACITY (Gallons Per Foot)    0.75" = 0.02;    1" = 0.04;    1.25" = 0.06;    2" = 0.16;    3" = 0.37;    4" = 0.65;    5" = 1.02;    6" = 1.47;    12" = 5.88									

### SAMPLING DATA

SAMPLED BY (PRINT): <b>Daniel Birch</b>		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLING DATE: <b>1/29/15</b>	SAMPLING TIME: <b>1600</b>				
PUMP OR TUBING DEPTH IN WELL (feet): <b>11</b>		TUBING MATERIAL CODE: <b>PE</b>		FIELD FILTERED: <b>Y</b> (M)	FILTER SIZE:				
DUPLICATE COLLECTED: <b>Y</b> (M)									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	3	CG	40 ml	HCL	/	/	8260B	<b>RFPP</b>	/
	3	CG	40 ml	HCL	/	/	8011		
	1	PE	250 ml	HNO3	/	/	6010		
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = Ater Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

#### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤10 NTU or ±10%

# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridge land</u>
WELL NO: <u>MW19</u>	DATE: <u>1/29/15</u>
SAMPLE ID: <u>MW19</u>	

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.76</u>	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>3</u> feet	STATIC DEPTH TO WATER (feet): <u>2.01</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) x WELL CAPACITY = ( <u>13.76</u> feet - <u>2.01</u> feet ) x <u>0.16</u> gallons/foot = <u>1.88</u> gallons									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
<u>1209</u>	<u>1</u>	<u>1</u>	<u>19.6</u>	<u>5.9</u>	<u>55</u>	<u>1.76</u>	<u>1000</u>	<u>Blk</u>	<u>N</u>
<u>1214</u>	<u>1</u>	<u>2</u>	<u>19.5</u>	<u>6.0</u>	<u>57</u>	<u>1.62</u>	<u>115</u>	<u>Cl</u>	<u> </u>
<u>1226</u>	<u>1</u>	<u>3</u>	<u>19.5</u>	<u>6.0</u>	<u>59</u>	<u>1.65</u>	<u>103</u>	<u> </u>	<u> </u>
<u>1238</u>	<u>1</u>	<u>4</u>	<u>19.5</u>	<u>6.0</u>	<u>59</u>	<u>1.61</u>	<u>18</u>	<u> </u>	<u> </u>
<u>1243</u>	<u>1</u>	<u>5</u>	<u>19.5</u>	<u>6.0</u>	<u>59</u>	<u>1.60</u>	<u>18</u>	<u> </u>	<u> </u>
<u>1251</u>	<u>1</u>	<u>6</u>	<u>19.4</u>	<u>6.1</u>	<u>58</u>	<u>1.60</u>	<u>12</u>	<u> </u>	<u> </u>
<u>1300</u>	<u>1</u>	<u>7</u>	<u>19.5</u>	<u>6.1</u>	<u>59</u>	<u>1.61</u>	<u>8.2</u>	<u> </u>	<u> </u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Bush</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1300</u>						
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	FILTER SIZE: <u>0</u>						
DUPLICATE COLLECTED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8260B</u>	<u>RFPP</u>	<u>/</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>/</u>	<u>/</u>	<u>8011</u>	<u>/</u>	<u>/</u>
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>/</u>	<u>/</u>	<u>8010</u>	<u>/</u>	<u>/</u>
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = Ater Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

### STABILIZATION CRITERIA

pH: ±0.2 units Temperature: ±0.2 °C Specific Conductance: ±5% Dissolved Oxygen: ±0.2 mg/L or ±10% Turbidity: ≤10 NTU or ±10%

## GROUNDWATER SAMPLING LOG

SITE NAME: <u>Buttrick</u>	SITE LOCATION: <u>Ridge land</u>
WELL NO: <u>mw19D</u>	SAMPLE ID: <u>mw19D</u> DATE: <u>1/29/15</u>

### PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>31.91</u>	WELL SCREEN INTERVAL DEPTH:      feet to      feet	STATIC DEPTH TO WATER (feet): <u>5.43</u>	PURGE PUMP TYPE OR BAILER: <u>B</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <u>31.91</u> feet - <u>5.43</u> feet ) X <u>.16</u> gallons/foot = <u>4.24</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	A	pH (su)	A	COND. (uS)	A	DO (mg/L)	A	TURB IDITY (NTU)	A	COLOR	ODOR
<u>1200</u>	<u>5.0</u>	<u>5.0</u>	<u>20.2</u>	-	<u>6.5</u>	-	<u>171</u>	-	<u>1.05</u>	-	<u>1100</u>	-	<u>BLK</u>	<u>N</u>
<u>1245</u>	<u>0.5</u>	<u>5.5</u>	<u>20.</u>	<u>.2</u>	<u>6.2</u>	<u>.3</u>	<u>170</u>	<u>1</u>	<u>1.04</u>	<u>.01</u>	<u>115</u>	-	<u>CL</u>	<u>1</u>
<u>1300</u>	<u>0.5</u>	<u>6.0</u>	<u>20</u>	<u>#</u>	<u>6.2</u>	<u>#</u>	<u>168</u>	<u>2</u>	<u>0.99</u>	<u>.05</u>	<u>12</u>	<u>53</u>	<u>1</u>	<u>1</u>
<u>1315</u>	<u>0.5</u>	<u>6.5</u>	<u>19.9</u>	<u>.1</u>	<u>6.2</u>	<u>#</u>	<u>168</u>	<u>#</u>	<u>0.95</u>	<u>.04</u>	<u>62</u>	<u>#</u>	<u>1</u>	<u>1</u>
<u>1330</u>	<u>0.5</u>	<u>7.0</u>	<u>19.9</u>	<u>#</u>	<u>6.2</u>	<u>#</u>	<u>168</u>	<u>#</u>	<u>0.95</u>	<u>#</u>	<u>60</u>	<u>2</u>	<u>1</u>	<u>1</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

### SAMPLING DATA

SAMPLED BY (PRINT): <u>David Birch</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1330</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>35</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u> FILTER SIZE: <u>0</u>	Filtration Equipment Type: <u>0</u>
DUPLICATE COLLECTED: <u>Y</u> <u>0</u>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8260B</u>	<u>B</u>	/
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8011</u>	<u>1</u>	/
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	/	/	<u>6010</u>	<u>1</u>	/

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

#### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%



# GROUNDWATER SAMPLING LOG

SITE NAME: <u>Burnettes</u>	SITE LOCATION: <u>Ridge Level</u>
WELL NO: <u>MW 20</u>	SAMPLE ID: <u>MW 20</u> DATE: <u>1/29/15</u>

## PURGING DATA

WELL DIAMETER (inches): <u>2</u>	Total Well Depth (feet): <u>13.15</u>	WELL SCREEN INTERVAL DEPTH: <u>11</u> feet to <u>14</u> feet	STATIC DEPTH TO WATER (feet): <u>0</u>	PURGE PUMP TYPE OR BAILER: <u>RFPP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= ( <u>13.15</u> feet - <u>0</u> feet ) X <u>0.16</u> gallons/foot = <u>2.10</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
<u>1539</u>	<u>-</u>	<u>-</u>	<u>18.5</u>	<u>-</u>	<u>142</u>	<u>1.77</u>	<u>49</u>	<u>1</u>	<u>N</u>
<u>1546</u>	<u>2</u>	<u>2</u>	<u>18.5</u>	<u>0</u>	<u>140</u>	<u>1.65</u>	<u>12</u>	<u>35</u>	
<u>1553</u>	<u>1</u>	<u>3</u>	<u>18.4</u>	<u>0</u>	<u>140</u>	<u>1.57</u>	<u>14</u>	<u>21</u>	
<u>1603</u>	<u>1</u>	<u>4</u>	<u>18.4</u>	<u>0</u>	<u>140</u>	<u>1.54</u>	<u>103</u>	<u>2</u>	
<u>1611</u>	<u>1.5</u>	<u>5.5</u>	<u>18.4</u>	<u>0</u>	<u>140</u>	<u>1.50</u>	<u>104</u>	<u>18</u>	
<u>1618</u>	<u>1.5</u>	<u>7</u>	<u>18.2</u>	<u>1.2</u>	<u>138</u>	<u>1.51</u>	<u>101</u>	<u>18</u>	
<u>1621</u>	<u>1</u>	<u>8</u>	<u>18.2</u>	<u>0</u>	<u>136</u>	<u>1.50</u>	<u>101</u>	<u>15</u>	
<u>1630</u>	<u>1</u>	<u>9</u>	<u>18.3</u>	<u>1.1</u>	<u>136</u>	<u>1.50</u>	<u>104</u>	<u>10</u>	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

## SAMPLING DATA

SAMPLED BY (PRINT): <u>Daniel Buxen</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING DATE: <u>1/29/15</u>	SAMPLING TIME: <u>1630</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>11</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>Y</u> (with circled Y)	FILTER SIZE: _____
DUPLICATE COLLECTED: <u>Y</u> (with circled Y)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8280B</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	/	/	<u>8011</u>		
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	/	/	<u>6010</u>		

REMARKS: \_\_\_\_\_

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### STABILIZATION CRITERIA

pH: ±0.2 units    Temperature: ±0.2 °C    Specific Conductance: ±5%    Dissolved Oxygen: ±0.2 mg/L or ±10%    Turbidity: ≤ 10 NTU or ±10%

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**Report of Analysis**

**Petra-Tech Environmental**

2435 East North Street  
Suite 1108-202  
Greenville, SC 29615  
Attention: Trever Slack

Project Name: **Burnette's Service Station**

Project Number: **J14-080-A**

Lot Number: **PL12072**

Date Completed: **12/19/2014**



**Lucas Odom**

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.

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# SHEALY ENVIRONMENTAL SERVICES, INC.

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SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

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## Case Narrative Petra-Tech Environmental Lot Number: PL12072

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

# SHEALY ENVIRONMENTAL SERVICES, INC.

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## Sample Summary Petra-Tech Environmental Lot Number: PL12072

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	GW19	Aqueous	12/08/2014 1501	12/12/2014
002	GW17	Aqueous	12/08/2014 1313	12/12/2014
003	GW17D	Aqueous	12/08/2014 1329	12/12/2014
004	GW06	Aqueous	12/08/2014 1330	12/12/2014
005	GW05	Aqueous	12/08/2014 1630	12/12/2014

(5 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Petra-Tech Environmental Lot Number: PL12072

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	GW19	Aqueous	Toluene	8260B	1.9		ug/L	5
002	GW17	Aqueous	Ethylbenzene	8260B	1.4		ug/L	6
002	GW17	Aqueous	Toluene	8260B	1.9		ug/L	6
002	GW17	Aqueous	Xylenes (total)	8260B	5.7		ug/L	6
003	GW17D	Aqueous	Ethylbenzene	8260B	1.3		ug/L	7
003	GW17D	Aqueous	Toluene	8260B	1.6		ug/L	7
003	GW17D	Aqueous	Xylenes (total)	8260B	3.4		ug/L	7
004	GW06	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.97	J	ug/L	8
004	GW06	Aqueous	Toluene	8260B	1.1		ug/L	8
004	GW06	Aqueous	Xylenes (total)	8260B	1.9		ug/L	8
005	GW05	Aqueous	Benzene	8260B	3.8		ug/L	9
005	GW05	Aqueous	Ethylbenzene	8260B	8.2		ug/L	9
005	GW05	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	2.9		ug/L	9
005	GW05	Aqueous	Naphthalene	8260B	3.0		ug/L	9
005	GW05	Aqueous	Toluene	8260B	36		ug/L	9
005	GW05	Aqueous	Xylenes (total)	8260B	33		ug/L	9

(16 detections)

Description: GW19

Matrix: Aqueous

Date Sampled: 12/08/2014 1501

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	12/19/2014 0108	PMM2		63487				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	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			
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>1.9</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		81	70-130								
Bromofluorobenzene		100	70-130								
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"

Description: GW17

Matrix: Aqueous

Date Sampled: 12/08/2014 1313

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0130	PMM2		63487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1		
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>1.4</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>		
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		
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>1.9</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>		
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>5.7</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		82	70-130							
Bromofluorobenzene		102	70-130							
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"



Description: GW17D

Matrix: Aqueous

Date Sampled: 12/08/2014 1329

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	12/19/2014 0153	PMM2		63487				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1			
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>1.3</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>			
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			
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>1.6</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>			
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>3.4</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		80	70-130								
Bromofluorobenzene		100	70-130								
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"

Description: GW06

Matrix: Aqueous

Date Sampled: 12/08/2014 1330

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	12/19/2014 0215	PMM2		63487				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>0.97</b>	<b>J</b>	<b>1.0</b>	<b>0.40</b>	<b>ug/L</b>	<b>1</b>			
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1			
Toluene	108-88-3	8260B	1.1		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	1.9		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		82	70-130								
Bromofluorobenzene		102	70-130								
Toluene-d8		88	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 MDL

J = Estimated result &lt; 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"

Description: GW05

Matrix: Aqueous

Date Sampled: 12/08/2014 1630

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	12/19/2014 0238	PMM2		63487				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	3.8		1.0	0.13	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1			
Ethylbenzene	100-41-4	8260B	8.2		1.0	0.33	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	2.9		1.0	0.40	ug/L	1			
Naphthalene	91-20-3	8260B	3.0		1.0	0.40	ug/L	1			
Toluene	108-88-3	8260B	36		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	33		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		82	70-130								
Bromofluorobenzene		101	70-130								
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"



**SHEALY ENVIRONMENTAL SERVICES, INC.**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.shealylab.com

## Chain of Custody Record

Number 40765

Client <b>Petra-Tech Env.</b>	Report to Contact <b>Trevor Slack</b>	Telephone No. / E-mail <b>tslack@petrotechenv.com</b>	Quote No.
Address <b>2435 E. North St Ste 1108-202</b>	Sampler's Signature x <b>Daniel Burch</b>	Analysis (Attach list if more space is needed)	Page <b>1</b> of <b>1</b>
City <b>Greenville</b>	Printed Name <b>Daniel Burch</b>	Barcode 	Remarks / Cooler I.D. <b>PL12072</b>
Project Name <b>Burnetts Service Station</b>	Project No. <b>J14-080-A</b>	No. of Containers by Preservative Type	Matrix
Sample ID / Description (Contains for each sample may be combined on one line.)	Date	Time	Matrix
<b>Gw19</b>	<b>12-18-14</b>	<b>1507</b>	6 X
<b>Gw17</b>	<b>12-19-14</b>	<b>1313</b>	2 X
<b>Gw17D</b>	<b>12-18-14</b>	<b>1329</b>	2 X
<b>Gw06</b>	<b>12-18-14</b>	<b>1330</b>	2 X
<b>Gw05</b>	<b>12-18-14</b>	<b>1630</b>	2 X

Turn Around Time Required (Prior lab approval required for expedited MAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	QC Requirements (Specify) <b>NO QA/QC Screening ONLY</b>
1. Requisitioned by 	Date <b>12/18/14</b>	Time <b>1330</b>	Date <b>12/14/14</b>
2. Requisitioned by	Date	Time	Date
3. Requisitioned by	Date	Time	Date
4. Requisitioned by 	Date <b>12/16/14</b>	Time <b>1550</b>	Date <b>12/11/14</b>

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: F-AD-016  
 Revision Number: 16

Page 1 of 1  
 Replaces Date: 07/15/14  
 Effective Date: 11/07/14

## Sample Receipt Checklist (SRC)

Client: Petra Tech Cooler Inspected by/date: MAM/12/12/14 Lot #: PL12072

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>13.0/2.9</u> °C / / °C / / °C / / °C		
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles   IR Gun ID: #4   IR Gun Correction Factor: <u>0.1</u> °C		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 4. Is the commercial courier's packing slip attached to this form?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 5a Were samples relinquished by client to commercial courier?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	6. Were sample IDs listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	7. Were sample IDs listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8. Was collection date & time listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	9. Was collection date & time listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	10. Did all container label information (ID, date, time) agree with the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	11. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	12. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	14. Was adequate sample volume available?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	16. Were any samples containers missing?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	17. Were there any excess samples not listed on COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/> 18. Were bubbles present > "pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 22. Were collection temperatures documented on the COC for NC samples?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>	24. Was the quote number used taken from the container label?
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____		
Sample(s) <u>605 (1 vial)</u> 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: <u>MAM</u> Verified by: <u>MAM</u> Date: <u>12/12/14</u>		

Comments:

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**Report of Analysis**

**Petra-Tech Environmental**

2435 East North Street  
Suite 1108-202  
Greenville, SC 29615  
Attention: Trever Slack

Project Name: **Burnettes Service Station**

Project Number: **J14-080-A**

Lot Number: **PL12073**

Date Completed: **12/19/2014**



**Lucas Odom**

Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

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

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# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

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## Case Narrative

### Petra-Tech Environmental

#### Lot Number: PL12073

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.



# SHEALY ENVIRONMENTAL SERVICES, INC.

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## Sample Summary Petra-Tech Environmental Lot Number: PL12073

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	GW12	Aqueous	12/08/2014 1100	12/12/2014
002	GW11	Aqueous	12/08/2014 1609	12/12/2014
003	GW11D	Aqueous	12/08/2014 1701	12/12/2014
004	GW03D	Aqueous	12/08/2014 1652	12/12/2014
005	GW03	Aqueous	12/08/2014 1659	12/12/2014
006	GW01	Aqueous	12/08/2014 1615	12/12/2014

(6 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Petra-Tech Environmental Lot Number: PL12073

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	GW12	Aqueous	Benzene	8260B	4.1		ug/L	5
001	GW12	Aqueous	Ethylbenzene	8260B	7.9		ug/L	5
001	GW12	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	2.8		ug/L	5
001	GW12	Aqueous	Naphthalene	8260B	100		ug/L	5
001	GW12	Aqueous	Toluene	8260B	24		ug/L	5
001	GW12	Aqueous	Xylenes (total)	8260B	50		ug/L	5
002	GW11	Aqueous	Ethylbenzene	8260B	1.8		ug/L	6
002	GW11	Aqueous	Naphthalene	8260B	1.1		ug/L	6
002	GW11	Aqueous	Toluene	8260B	2.7		ug/L	6
002	GW11	Aqueous	Xylenes (total)	8260B	8.3		ug/L	6
003	GW11D	Aqueous	Ethylbenzene	8260B	2.6		ug/L	7
003	GW11D	Aqueous	Naphthalene	8260B	0.55	J	ug/L	7
003	GW11D	Aqueous	Toluene	8260B	4.5		ug/L	7
003	GW11D	Aqueous	Xylenes (total)	8260B	10		ug/L	7
004	GW03D	Aqueous	Benzene	8260B	0.34	J	ug/L	8
004	GW03D	Aqueous	Ethylbenzene	8260B	4.6		ug/L	8
004	GW03D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.79	J	ug/L	8
004	GW03D	Aqueous	Naphthalene	8260B	0.70	J	ug/L	8
004	GW03D	Aqueous	Toluene	8260B	12		ug/L	8
004	GW03D	Aqueous	Xylenes (total)	8260B	44		ug/L	8
005	GW03	Aqueous	Benzene	8260B	0.34	J	ug/L	9
005	GW03	Aqueous	Ethylbenzene	8260B	5.7		ug/L	9
005	GW03	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	7.3		ug/L	9
005	GW03	Aqueous	Naphthalene	8260B	6.3		ug/L	9
005	GW03	Aqueous	Toluene	8260B	14		ug/L	9
005	GW03	Aqueous	Xylenes (total)	8260B	42		ug/L	9
006	GW01	Aqueous	Benzene	8260B	1500		ug/L	10
006	GW01	Aqueous	Ethylbenzene	8260B	2100		ug/L	10
006	GW01	Aqueous	Naphthalene	8260B	650		ug/L	10
006	GW01	Aqueous	Toluene	8260B	24000	E	ug/L	10
006	GW01	Aqueous	Xylenes (total)	8260B	13000		ug/L	10

(31 detections)

Description: GW12

Matrix: Aqueous

Date Sampled: 12/08/2014 1100

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0300	PMM2		63487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	4.1		1.0	0.13	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1		
Ethylbenzene	100-41-4	8260B	7.9		1.0	0.33	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	2.8		1.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	100		1.0	0.40	ug/L	1		
Toluene	108-88-3	8260B	24		1.0	0.33	ug/L	1		
Xylenes (total)	1330-20-7	8260B	50		1.0	0.33	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		80	70-130							
Bromofluorobenzene		102	70-130							
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"

Description: GW11

Matrix: Aqueous

Date Sampled: 12/08/2014 1609

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0323	PMM2		63487			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1	
<b>Ethylbenzene</b>		<b>100-41-4</b>	<b>8260B</b>	<b>1.8</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
<b>Naphthalene</b>		<b>91-20-3</b>	<b>8260B</b>	<b>1.1</b>		<b>1.0</b>	<b>0.40</b>	<b>ug/L</b>	<b>1</b>	
<b>Toluene</b>		<b>108-88-3</b>	<b>8260B</b>	<b>2.7</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>		<b>1330-20-7</b>	<b>8260B</b>	<b>8.3</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		77	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		88	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 MDL

J = Estimated result &lt; 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"

Description: GW11D

Matrix: Aqueous

Date Sampled: 12/08/2014 1701

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0345	PMM2		63487			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1	
<b>Ethylbenzene</b>		<b>100-41-4</b>	<b>8260B</b>	<b>2.6</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
<b>Naphthalene</b>		<b>91-20-3</b>	<b>8260B</b>	<b>0.55</b>	<b>J</b>	<b>1.0</b>	<b>0.40</b>	<b>ug/L</b>	<b>1</b>	
<b>Toluene</b>		<b>108-88-3</b>	<b>8260B</b>	<b>4.5</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>		<b>1330-20-7</b>	<b>8260B</b>	<b>10</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		78	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"

Description: GW03D

Matrix: Aqueous

Date Sampled: 12/08/2014 1652

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0408	PMM2		63487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	0.34	J	1.0	0.13	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1		
Ethylbenzene	100-41-4	8260B	4.6		1.0	0.33	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	0.79	J	1.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	0.70	J	1.0	0.40	ug/L	1		
Toluene	108-88-3	8260B	12		1.0	0.33	ug/L	1		
Xylenes (total)	1330-20-7	8260B	44		1.0	0.33	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		79	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		89	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 MDL

J = Estimated result &lt; 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"

Description: GW03

Matrix: Aqueous

Date Sampled: 12/08/2014 1659

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0430	PMM2		63487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	0.34	J	1.0	0.13	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1		
Ethylbenzene	100-41-4	8260B	5.7		1.0	0.33	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	7.3		1.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	6.3		1.0	0.40	ug/L	1		
Toluene	108-88-3	8260B	14		1.0	0.33	ug/L	1		
Xylenes (total)	1330-20-7	8260B	42		1.0	0.33	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		77	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"

Description: GW01

Matrix: Aqueous

Date Sampled: 12/08/2014 1615

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	100	12/19/2014 0453	PMM2		63487				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	1500		100	13	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		100	15	ug/L	1			
Ethylbenzene	100-41-4	8260B	2100		100	33	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1			
Naphthalene	91-20-3	8260B	650		100	40	ug/L	1			
Toluene	108-88-3	8260B	24000	E	100	33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	13000		100	33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		76	70-130								
Bromofluorobenzene		100	70-130								
Toluene-d8		88	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 MDL

J = Estimated result &lt; 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"




# SHEALY ENVIRONMENTAL SERVICES, INC.

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.shealylab.com

**Number 40766**

**Chain of Custody Record**

Client <b>Petra Tech Env.</b> Address <b>2435 G. North St. Ste 108-202</b> City <b>Greenville</b> State <b>SC</b> Zip Code <b>29615</b> Project Name <b>Bumette's Service Station</b>	Report to Contact <b>Traver Slack</b> Sampler's Signature X <b>Daniel Burch</b> Printed Name	Telephone No. / E-mail <b>+1 202 412 2004</b>	Quote No. Page <b>1</b> of <b>1</b>	Analysis (attach list if more space is needed)
Project No. <b>J14-080-A</b> Sample ID / Description (Containers for each sample may be combined on one line.)	P.O. No.	Matrix Solid Liquid Gas Other	No. of Containers by Preservative Type None HCl HNO3 H2SO4 Other	Barcode  <b>PL12073</b>
Date <b>12/18/14</b> <b>12/18/14</b> <b>12/18/14</b> <b>12/18/14</b> <b>12/18/14</b> <b>12/18/14</b>	Time <b>1100</b> <b>1609</b> <b>1701</b> <b>1652</b> <b>1659</b> <b>1615</b>	Remarks / Cooler I.D. <b>NO HAZ</b> <b>5 Containers</b>		

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown
1. Relinquished by Date: <b>12/12/14</b> Time: <b>1330</b>	1. Received by Date: <b>12/12/14</b> Time: <b>1330</b>	GC Requirements (Specify) <b>NO OADR Screening Only</b>
2. Relinquished by Date: _____ Time: _____	2. Received by Date: _____ Time: _____	Date: <b>12/12/14</b> Time: <b>1550</b>
3. Relinquished by Date: _____ Time: _____	3. Received by Date: _____ Time: _____	Date: _____ Time: _____
4. Relinquished by Date: <b>12/12/14</b> Time: <b>1330</b>	4. Laboratory received by Date: _____ Time: _____	Date: _____ Time: _____

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY  
 Received on Ice (Circle)  No    Ice Pack   Receipt Temp. **2.9** °C

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: F-AD-016  
 Revision Number: 16

Page 1 of 1  
 Replaces Date: 07/15/14  
 Effective Date: 11/07/14

## Sample Receipt Checklist (SRC)

Client: Redva-Tech Cooler Inspected by/date: Mam /12/14 Lot #: PL2073

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
2. If custody seals were present, were they intact and unbroken?		
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>13.0/2.9 °C</u> / / °C / / °C / / °C		
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles   IR Gun ID: # <u>4</u> IR Gun Correction Factor: <u>0.1</u> °C		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
4. Is the commercial courier's packing slip attached to this form?		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
5. Were proper custody procedures (relinquished/received) followed?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
5a Were samples relinquished by client to commercial courier?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
6. Were sample IDs listed on the COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
7. Were sample IDs listed on all sample containers?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
8. Was collection date & time listed on the COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
9. Was collection date & time listed on all sample containers?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
10. Did all container label information (ID, date, time) agree with the COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
11. Were tests to be performed listed on the COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
12. Did all samples arrive in the proper containers for each test?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
13. Did all containers arrive in good condition (unbroken, lids on, etc.)?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
14. Was adequate sample volume available?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
16. Were any samples containers missing?		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
17. Were there any excess samples not listed on COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
20. Were all cyanide and/or sulfide samples received at a pH >12?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
22. Were collection temperatures documented on the COC for NC samples?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
24. Was the quote number used taken from the container label?		
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.) Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____ Sample(s) <u>005 (1 vial)</u> 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: <u>Mam</u> Verified by: <u>Mam</u> Date: <u>12/14</u>		

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

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**Report of Analysis**

**Petra-Tech Environmental**

2435 East North Street  
Suite 1108-202  
Greenville, SC 29615  
Attention: Trever Slack

Project Name: **Burnettes Service Station**

Project Number: **J14-080-A**

Lot Number: **PL12074**

Date Completed: **12/19/2014**



**Lucas Odom**

Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

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

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# SHEALY ENVIRONMENTAL SERVICES, INC.

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SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

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## Case Narrative Petra-Tech Environmental Lot Number: PL12074

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

# SHEALY ENVIRONMENTAL SERVICES, INC.

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## Sample Summary Petra-Tech Environmental Lot Number: PL12074

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	GW15	Aqueous	12/08/2014 1259	12/12/2014
002	GW13	Aqueous	12/08/2014 1952	12/12/2014
003	GW07	Aqueous	12/08/2014 1446	12/12/2014
004	GW07D	Aqueous	12/08/2014 1155	12/12/2014

(4 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Petra-Tech Environmental Lot Number: PL12074

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
003	GW07	Aqueous	Benzene	8260B	3.3	J	ug/L	7
003	GW07	Aqueous	Ethylbenzene	8260B	260		ug/L	7
003	GW07	Aqueous	Naphthalene	8260B	110		ug/L	7
003	GW07	Aqueous	Toluene	8260B	480		ug/L	7
003	GW07	Aqueous	Xylenes (total)	8260B	890		ug/L	7
004	GW07D	Aqueous	Benzene	8260B	0.46	J	ug/L	8
004	GW07D	Aqueous	Ethylbenzene	8260B	46		ug/L	8
004	GW07D	Aqueous	Naphthalene	8260B	16		ug/L	8
004	GW07D	Aqueous	Toluene	8260B	100		ug/L	8
004	GW07D	Aqueous	Xylenes (total)	8260B	190		ug/L	8

(10 detections)

Description: GW15

Matrix: Aqueous

Date Sampled: 12/08/2014 1259

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0515	PMM2		63487			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		1.0	0.33	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	
Toluene		108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		76	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		88	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 MDL

J = Estimated result &lt; 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"



Description: GW13

Matrix: Aqueous

Date Sampled: 12/08/2014 1952

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0538	PMM2		63487			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		1.0	0.33	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	
Toluene		108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		76	70-130							
Bromofluorobenzene		98	70-130							
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"

Description: GW07

Matrix: Aqueous

Date Sampled: 12/08/2014 1446

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	5	12/19/2014 0600	PMM2		63487				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	3.3	J	5.0	0.66	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.74	ug/L	1			
Ethylbenzene	100-41-4	8260B	260		5.0	1.7	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	2.0	ug/L	1			
Naphthalene	91-20-3	8260B	110		5.0	2.0	ug/L	1			
Toluene	108-88-3	8260B	480		5.0	1.7	ug/L	1			
Xylenes (total)	1330-20-7	8260B	890		5.0	1.7	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		77	70-130								
Bromofluorobenzene		97	70-130								
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"

Description: GW07D

Matrix: Aqueous

Date Sampled: 12/08/2014 1155

Date Received: 12/12/2014

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	12/19/2014 0623	PMM2		63487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	0.46	J	1.0	0.13	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1		
Ethylbenzene	100-41-4	8260B	46		1.0	0.33	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	16		1.0	0.40	ug/L	1		
Toluene	108-88-3	8260B	100		1.0	0.33	ug/L	1		
Xylenes (total)	1330-20-7	8260B	190		1.0	0.33	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		75	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		87	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 MDL

J = Estimated result &lt; 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"



# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: F-AD-016  
 Revision Number: 16

Page 1 of 1  
 Replaces Date: 07/15/14  
 Effective Date: 11/07/14

## Sample Receipt Checklist (SRC)

Client: Petra-Tech Cooler Inspected by/date: MAM/12/14 Lot #: PL12074

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>13.0/2.9 °C</u> / / °C / / °C / / °C		
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles   IR Gun ID: #4   IR Gun Correction Factor: <u>0.1 °C</u>		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 4. Is the commercial courier's packing slip attached to this form?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 5a Were samples relinquished by client to commercial courier?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	6. Were sample IDs listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	7. Were sample IDs listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8. Was collection date & time listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	9. Was collection date & time listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	10. Did all container label information (ID, date, time) agree with the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	11. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	12. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	14. Was adequate sample volume available?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	16. Were any samples containers missing?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	17. Were there any excess samples not listed on COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/> 18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 22. Were collection temperatures documented on the COC for NC samples?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>	24. Was the quote number used taken from the container label?
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____.		
Sample(s) <u>001 (1 vial)</u> 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: <u>MAM</u> Verified by: <u>MAM</u> Date: <u>12/14</u>		

Comments:

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**Report of Analysis**

**Petra-Tech Environmental**

2435 East North Street  
Suite 1108-202  
Greenville, SC 29615  
Attention: Trever Slack

Project Name: **Burnette's Service Station**

Project Number: **J14-080-A**

Lot Number: **QB02030**

Date Completed: **02/09/2015**



**Lucas Odom**

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.

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# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

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## Case Narrative Petra-Tech Environmental Lot Number: QB02030

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

EDB by Microextraction

Samples -019 and -032 have been qualified with a "P" as the relative percent difference between the two GC columns exceeded method criteria. Per SCDHEC, the lesser of the two values has been reported.

The surrogate associated with sample -029 recovered above method criteria. No corrective action was taken as the sample was non-detect for the target compound.



# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Petra-Tech Environmental Lot Number: QB02030

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TRIP BLANK	Aqueous	01/29/2015	02/02/2015
002	MW17	Aqueous	01/29/2015 1155	02/02/2015
003	MW05	Aqueous	01/29/2015 0900	02/02/2015
004	MW04	Aqueous	01/29/2015 0820	02/02/2015
005	MW09	Aqueous	01/29/2015 0930	02/02/2015
006	MW14D	Aqueous	01/29/2015 0730	02/02/2015
007	MW14	Aqueous	01/29/2015 0700	02/02/2015
008	MW11	Aqueous	01/29/2015 1000	02/02/2015
009	MW13	Aqueous	01/29/2015 0800	02/02/2015
010	MW10	Aqueous	01/29/2015 1030	02/02/2015
011	MW19D	Aqueous	01/29/2015 1330	02/02/2015
012	MW20	Aqueous	01/29/2015 1100	02/02/2015
013	SW04	Aqueous	01/29/2015 1751	02/02/2015
014	SW03	Aqueous	01/29/2015 1742	02/02/2015
015	WSW01	Aqueous	01/29/2015 1653	02/02/2015
016	SW02	Aqueous	01/29/2015 1721	02/02/2015
017	SW01	Aqueous	01/29/2015 1706	02/02/2015
018	MW08	Aqueous	01/29/2015 1147	02/02/2015
019	MW03	Aqueous	01/29/2015 1830	02/02/2015
020	WSW03	Aqueous	01/29/2015 1309	02/02/2015
021	MW07	Aqueous	01/29/2015 1700	02/02/2015
022	WSW04	Aqueous	01/29/2015 1347	02/02/2015
023	MW15	Aqueous	01/29/2015 1430	02/02/2015
024	MW02	Aqueous	01/29/2015 1400	02/02/2015
025	DUP A	Aqueous	01/29/2015 1505	02/02/2015
026	MW17D	Aqueous	01/29/2015 1230	02/02/2015
027	SW05	Aqueous	01/29/2015 0840	02/02/2015
028	MW20	Aqueous	01/29/2015 1630	02/02/2015
029	MW18	Aqueous	01/29/2015 1600	02/02/2015
030	MW01	Aqueous	01/29/2015 1500	02/02/2015
031	FIELD BLANK 1	Aqueous	01/29/2015 1426	02/02/2015
032	DUP B	Aqueous	01/29/2015 0655	02/02/2015
033	MW07D	Aqueous	01/29/2015 0515	02/02/2015
034	MW16	Aqueous	01/29/2015 1530	02/02/2015
035	MW19	Aqueous	01/29/2015 1300	02/02/2015
036	MW06	Aqueous	01/29/2015 1730	02/02/2015
037	TRIP BLANK	Aqueous	01/29/2015	02/02/2015

(37 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Petra-Tech Environmental Lot Number: QB02030

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW17	Aqueous	Ethylbenzene	8260B	0.53	J	ug/L	8
002	MW17	Aqueous	Toluene	8260B	0.38	J	ug/L	8
002	MW17	Aqueous	Xylenes (total)	8260B	0.60	J	ug/L	8
002	MW17	Aqueous	Lead	6010C	0.0074	J	mg/L	8
004	MW04	Aqueous	tert-Amyl alcohol (TAA)	8260B	6.8	J	ug/L	10
004	MW04	Aqueous	Benzene	8260B	2.9		ug/L	10
004	MW04	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	1.4		ug/L	10
004	MW04	Aqueous	Naphthalene	8260B	1.1		ug/L	10
004	MW04	Aqueous	Xylenes (total)	8260B	74		ug/L	10
004	MW04	Aqueous	Lead	6010C	0.0027	J	mg/L	10
005	MW09	Aqueous	tert-Amyl alcohol (TAA)	8260B	370		ug/L	11
005	MW09	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	13		ug/L	11
005	MW09	Aqueous	tert-butyl alcohol (TBA)	8260B	230		ug/L	11
006	MW14D	Aqueous	Benzene	8260B	30		ug/L	12
006	MW14D	Aqueous	Ethylbenzene	8260B	1.6		ug/L	12
006	MW14D	Aqueous	tert-butyl alcohol (TBA)	8260B	8.1	J	ug/L	12
006	MW14D	Aqueous	Toluene	8260B	20		ug/L	12
006	MW14D	Aqueous	Xylenes (total)	8260B	6.3		ug/L	12
007	MW14	Aqueous	Lead	6010C	0.0053	J	mg/L	13
008	MW11	Aqueous	Ethanol	8260B	4100		ug/L	14
008	MW11	Aqueous	Lead	6010C	0.0051	J	mg/L	14
009	MW13	Aqueous	Ethanol	8260B	46	J	ug/L	15
009	MW13	Aqueous	Lead	6010C	0.0041	J	mg/L	15
011	MW19D	Aqueous	Benzene	8260B	7.7		ug/L	17
011	MW19D	Aqueous	Ethanol	8260B	200		ug/L	17
011	MW19D	Aqueous	Ethylbenzene	8260B	0.49	J	ug/L	17
011	MW19D	Aqueous	Toluene	8260B	5.4		ug/L	17
011	MW19D	Aqueous	Xylenes (total)	8260B	1.8		ug/L	17
012	MW20	Aqueous	Benzene	8260B	7.8		ug/L	18
012	MW20	Aqueous	Ethylbenzene	8260B	120		ug/L	18
012	MW20	Aqueous	Naphthalene	8260B	98		ug/L	18
012	MW20	Aqueous	tert-butyl alcohol (TBA)	8260B	61	J	ug/L	18
012	MW20	Aqueous	Toluene	8260B	200		ug/L	18
012	MW20	Aqueous	Xylenes (total)	8260B	420		ug/L	18
013	SW04	Aqueous	tert-Amyl methyl ether (TAME)	8260B	1.5	J	ug/L	19
017	SW01	Aqueous	Xylenes (total)	8260B	0.46	J	ug/L	23
018	MW08	Aqueous	tert-Amyl alcohol (TAA)	8260B	65		ug/L	24
018	MW08	Aqueous	Benzene	8260B	2.6		ug/L	24
018	MW08	Aqueous	Ethylbenzene	8260B	3.1		ug/L	24
018	MW08	Aqueous	Naphthalene	8260B	3.8		ug/L	24
018	MW08	Aqueous	tert-butyl alcohol (TBA)	8260B	15	J	ug/L	24
018	MW08	Aqueous	Toluene	8260B	0.61	J	ug/L	24
018	MW08	Aqueous	Xylenes (total)	8260B	2.1		ug/L	24
019	MW03	Aqueous	Benzene	8260B	6400		ug/L	25
019	MW03	Aqueous	Ethylbenzene	8260B	3700		ug/L	25

## Executive Summary (Continued)

Lot Number: QB02030

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
019	MW03	Aqueous	Naphthalene	8260B	1000		ug/L	25
019	MW03	Aqueous	Toluene	8260B	39000		ug/L	25
019	MW03	Aqueous	Xylenes (total)	8260B	19000		ug/L	25
019	MW03	Aqueous	1,2-Dibromoethane (EDB)	8011	0.055	P	ug/L	25
019	MW03	Aqueous	Lead	6010C	0.058		mg/L	25
021	MW07	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	1.1		ug/L	27
021	MW07	Aqueous	Xylenes (total)	8260B	0.55	J	ug/L	27
021	MW07	Aqueous	Lead	6010C	0.0073	J	mg/L	27
022	WSW04	Aqueous	tert-Amyl methyl ether (TAME)	8260B	1.5	J	ug/L	28
023	MW15	Aqueous	Ethanol	8260B	290		ug/L	29
023	MW15	Aqueous	Lead	6010C	0.0029	J	mg/L	29
024	MW02	Aqueous	tert-Amyl alcohol (TAA)	8260B	36	J	ug/L	30
024	MW02	Aqueous	Benzene	8260B	21		ug/L	30
024	MW02	Aqueous	Ethylbenzene	8260B	45		ug/L	30
024	MW02	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	2.6	J	ug/L	30
024	MW02	Aqueous	Naphthalene	8260B	230		ug/L	30
024	MW02	Aqueous	tert-butyl alcohol (TBA)	8260B	55	J	ug/L	30
024	MW02	Aqueous	Toluene	8260B	78		ug/L	30
024	MW02	Aqueous	Xylenes (total)	8260B	120		ug/L	30
024	MW02	Aqueous	Lead	6010C	0.023		mg/L	30
025	DUP A	Aqueous	tert-Amyl alcohol (TAA)	8260B	180	J	ug/L	31
025	DUP A	Aqueous	Benzene	8260B	470		ug/L	31
025	DUP A	Aqueous	Ethylbenzene	8260B	480		ug/L	31
025	DUP A	Aqueous	Naphthalene	8260B	590		ug/L	31
025	DUP A	Aqueous	Toluene	8260B	1300		ug/L	31
025	DUP A	Aqueous	Xylenes (total)	8260B	820		ug/L	31
025	DUP A	Aqueous	Lead	6010C	0.0025	J	mg/L	31
026	MW17D	Aqueous	Benzene	8260B	12		ug/L	32
026	MW17D	Aqueous	Ethylbenzene	8260B	1.0		ug/L	32
026	MW17D	Aqueous	Toluene	8260B	9.3		ug/L	32
026	MW17D	Aqueous	Xylenes (total)	8260B	3.6		ug/L	32
026	MW17D	Aqueous	Lead	6010C	0.0026	J	mg/L	32
028	MW20	Aqueous	Ethanol	8260B	89	J	ug/L	34
028	MW20	Aqueous	Toluene	8260B	0.49	J	ug/L	34
028	MW20	Aqueous	Lead	6010C	0.0077	J	mg/L	34
029	MW18	Aqueous	Lead	6010C	0.019		mg/L	35
030	MW01	Aqueous	tert-Amyl alcohol (TAA)	8260B	160	J	ug/L	36
030	MW01	Aqueous	Benzene	8260B	430		ug/L	36
030	MW01	Aqueous	Ethylbenzene	8260B	410		ug/L	36
030	MW01	Aqueous	Naphthalene	8260B	520		ug/L	36
030	MW01	Aqueous	Toluene	8260B	810		ug/L	36
030	MW01	Aqueous	Xylenes (total)	8260B	590		ug/L	36
032	DUP B	Aqueous	Benzene	8260B	6500		ug/L	38
032	DUP B	Aqueous	Ethylbenzene	8260B	3300		ug/L	38
032	DUP B	Aqueous	Naphthalene	8260B	2400		ug/L	38
032	DUP B	Aqueous	Toluene	8260B	39000		ug/L	38
032	DUP B	Aqueous	Xylenes (total)	8260B	17000		ug/L	38
032	DUP B	Aqueous	1,2-Dibromoethane (EDB)	8011	0.059	P	ug/L	38

## Executive Summary (Continued)

Lot Number: QB02030

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
032	DUP B	Aqueous	Lead	6010C	0.052		mg/L	38
033	MW07D	Aqueous	Benzene	8260B	0.25	J	ug/L	39
033	MW07D	Aqueous	Toluene	8260B	1.8		ug/L	39
033	MW07D	Aqueous	Xylenes (total)	8260B	0.64	J	ug/L	39
034	MW16	Aqueous	Ethanol	8260B	86	J	ug/L	40
034	MW16	Aqueous	Lead	6010C	0.0032	J	mg/L	40
035	MW19	Aqueous	Lead	6010C	0.0031	J	mg/L	41
036	MW06	Aqueous	tert-Amyl alcohol (TAA)	8260B	2800	J	ug/L	42
036	MW06	Aqueous	Benzene	8260B	3500		ug/L	42
036	MW06	Aqueous	Ethylbenzene	8260B	2200		ug/L	42
036	MW06	Aqueous	Naphthalene	8260B	1200		ug/L	42
036	MW06	Aqueous	Toluene	8260B	27000		ug/L	42
036	MW06	Aqueous	Xylenes (total)	8260B	13000		ug/L	42
036	MW06	Aqueous	Lead	6010C	0.033		mg/L	42

(107 detections)

Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 01/29/2015

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/04/2015 1726	EH1		66874				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		95	70-130								
Bromofluorobenzene		99	70-130								
Toluene-d8		100	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 MDL

J = Estimated result &lt; 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"

Description: MW17

Matrix: Aqueous

Date Sampled: 01/29/2015 1155

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 1749	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>0.53</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>0.38</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>0.60</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		97	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		102	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/04/2015 1544	MEM	02/03/2015 1010	66748		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		91	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0109	CDF	02/03/2015 0930	66736		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.0074</b>	<b>J</b>	<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>	

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 MDL

J = Estimated result &lt; 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"

Description: MW05

Matrix: Aqueous

Date Sampled: 01/29/2015 0900

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/04/2015 1813	EH1		66874				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		98	70-130								
Bromofluorobenzene		99	70-130								
Toluene-d8		103	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/04/2015 1554	MEM	02/03/2015 1010	66748				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		97	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0114	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW04

Matrix: Aqueous

Date Sampled: 01/29/2015 0820

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	02/04/2015 1836	EH1		66874			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	6.8	J	20	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>2.9</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1		
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1		
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>1.4</b>		<b>1.0</b>	<b>0.40</b>	<b>ug/L</b>	<b>1</b>		
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>1.1</b>		<b>1.0</b>	<b>0.40</b>	<b>ug/L</b>	<b>1</b>		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1		
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1		
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>74</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		97	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	02/04/2015 1604	MEM	02/03/2015 1010	66748			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		108	57-137							

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0118	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.0027</b>	<b>J</b>	<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>		

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 MDL

J = Estimated result &lt; 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"



Description: MW09

Matrix: Aqueous

Date Sampled: 01/29/2015 0930

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/04/2015 1859	EH1		66874				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	370		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	13		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	230		20	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		98	70-130								
Bromofluorobenzene		99	70-130								
Toluene-d8		102	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/04/2015 1615	MEM	02/03/2015 1010	66748				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		101	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0122	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW14D

Matrix: Aqueous

Date Sampled: 01/29/2015 0730

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/04/2015 1922	EH1		66874				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>30</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>1.6</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	8.1	J	20	6.7	ug/L	1			
Toluene	108-88-3	8260B	20		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	6.3		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		98	70-130								
Bromofluorobenzene		98	70-130								
Toluene-d8		101	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/04/2015 1633	MEM	02/03/2015 1010	66748				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		95	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0127	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW14

Matrix: Aqueous

Date Sampled: 01/29/2015 0700

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 1945	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		97	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		101	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/04/2015 1643	MEM	02/03/2015 1010	66748		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		99	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0131	CDF	02/03/2015 0930	66736		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Lead	7439-92-1	6010C	0.0053	J	0.010	0.0021	mg/L	1	

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 MDL

J = Estimated result &lt; 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"

Description: MW11

Matrix: Aqueous

Date Sampled: 01/29/2015 1000

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/04/2015 2008	EH1		66874				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
<b>Ethanol</b>	<b>64-17-5</b>	<b>8260B</b>	<b>4100</b>		<b>100</b>	<b>33</b>	<b>ug/L</b>	<b>1</b>			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		97	70-130								
Bromofluorobenzene		98	70-130								
Toluene-d8		101	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/04/2015 1653	MEM	02/03/2015 1010	66748				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		103	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0135	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	0.0051	J	0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW13

Matrix: Aqueous

Date Sampled: 01/29/2015 0800

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 2032	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
<b>Ethanol</b>	<b>64-17-5</b>	<b>8260B</b>	<b>46</b>	<b>J</b>	<b>100</b>	<b>33</b>	<b>ug/L</b>	<b>1</b>	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		98	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		101	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 0855	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		93	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0148	CDF	02/03/2015 0930	66736		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Lead	7439-92-1	6010C	0.0041	J	0.010	0.0021	mg/L	1	

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 MDL

J = Estimated result &lt; 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"

Description: MW10

Matrix: Aqueous

Date Sampled: 01/29/2015 1030

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 2055	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		96	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		101	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 0925	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		97	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0152	CDF	02/03/2015 0930	66736		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1	

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 MDL

J = Estimated result &lt; 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"

Description: MW19D

Matrix: Aqueous

Date Sampled: 01/29/2015 1330

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 2118	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>7.7</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
<b>Ethanol</b>	<b>64-17-5</b>	<b>8260B</b>	<b>200</b>		<b>100</b>	<b>33</b>	<b>ug/L</b>	<b>1</b>	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>0.49</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>5.4</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>1.8</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		96	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		102	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 0936	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		101	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0157	CDF	02/03/2015 0930	66736		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1	

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 MDL

J = Estimated result &lt; 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"

Description: MW20

Matrix: Aqueous

Date Sampled: 01/29/2015 1100

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	5	02/05/2015 0046	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	34	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>7.8</b>		<b>5.0</b>	<b>0.66</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	5.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.74	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	2.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	5.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		500	170	ug/L	1	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>120</b>		<b>5.0</b>	<b>1.7</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	2.0	ug/L	1	
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>98</b>		<b>5.0</b>	<b>2.0</b>	<b>ug/L</b>	<b>1</b>	
tert-butyl alcohol (TBA)	75-65-0	8260B	61	J	100	34	ug/L	1	
Toluene	108-88-3	8260B	200		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	420		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		97	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		102	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 0946	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		106	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0201	CDF	02/03/2015 0930	66736		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1	

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 MDL

J = Estimated result &lt; 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"



Description: SW04

Matrix: Aqueous

Date Sampled: 01/29/2015 1751

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 2141	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	1.5	J	10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		95	70-130						
Bromofluorobenzene		97	70-130						
Toluene-d8		100	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 0957	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		99	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 MDL

J = Estimated result &lt; 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"

Description: SW03

Matrix: Aqueous

Date Sampled: 01/29/2015 1742

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/04/2015 2204	EH1		66874				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		97	70-130								
Bromofluorobenzene		98	70-130								
Toluene-d8		102	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1007	MEM	02/03/2015 1349	66749				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	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 MDL

J = Estimated result &lt; 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"

Description: WSW01

Matrix: Aqueous

Date Sampled: 01/29/2015 1653

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/04/2015 2227	EH1		66874

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		101	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/05/2015 1017	MEM	02/03/2015 1349	66749

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

J = Estimated result &lt; 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"

Description: SW02

Matrix: Aqueous

Date Sampled: 01/29/2015 1721

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 2251	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		97	70-130						
Bromofluorobenzene		97	70-130						
Toluene-d8		101	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 1028	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		106	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 MDL

J = Estimated result &lt; 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"

Description: SW01

Matrix: Aqueous

Date Sampled: 01/29/2015 1706

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 2314	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	0.46	J	1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		98	70-130						
Bromofluorobenzene		99	70-130						
Toluene-d8		101	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 1038	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	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 MDL

J = Estimated result &lt; 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"

Description: MW08

Matrix: Aqueous

Date Sampled: 01/29/2015 1147

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/04/2015 2337	EH1		66874		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	65		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>2.6</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>3.1</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1	
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>3.8</b>		<b>1.0</b>	<b>0.40</b>	<b>ug/L</b>	<b>1</b>	
tert-butyl alcohol (TBA)	75-65-0	8260B	15	J	20	6.7	ug/L	1	
Toluene	108-88-3	8260B	0.61	J	1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	2.1		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		96	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		102	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 1048	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		101	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0205	CDF	02/03/2015 0930	66736		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1	

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 MDL

J = Estimated result &lt; 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"

Description: MW03

Matrix: Aqueous

Date Sampled: 01/29/2015 1830

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	500	02/05/2015 0000	EH1		66874			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		10000	3400	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	100	ug/L	1		
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>6400</b>		<b>500</b>	<b>66</b>	<b>ug/L</b>	<b>1</b>		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	500	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		500	74	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	500	ug/L	1		
Ethanol	64-17-5	8260B	ND		50000	17000	ug/L	1		
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>3700</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	100	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	200	ug/L	1		
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>1000</b>		<b>500</b>	<b>200</b>	<b>ug/L</b>	<b>1</b>		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	3400	ug/L	1		
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>39000</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>		
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>19000</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		96	70-130							
Bromofluorobenzene		98	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	02/05/2015 1059	MEM	02/03/2015 1349	66749			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>1,2-Dibromoethane (EDB)</b>	<b>106-93-4</b>	<b>8011</b>	<b>0.055</b>	<b>P</b>	<b>0.020</b>	<b>0.020</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		92	57-137							

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0210	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.058</b>		<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>		

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 MDL

J = Estimated result &lt; 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"

Description: WSW03

Matrix: Aqueous

Date Sampled: 01/29/2015 1309

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
2	5030B	8260B	1	02/05/2015 2355	PMM2		67068				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	2			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	2			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	2			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	2			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	2			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	2			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	2			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	2			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	2			
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	2			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	2			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	2			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	2			
Surrogate	Q	Run 2 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		97	70-130								
Bromofluorobenzene		98	70-130								
Toluene-d8		101	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1109	MEM	02/03/2015 1349	66749				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		106	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 MDL

J = Estimated result &lt; 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"



Description: MW07

Matrix: Aqueous

Date Sampled: 01/29/2015 1700

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/06/2015 0018	PMM2		67068				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1			
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>1.1</b>		<b>1.0</b>	<b>0.40</b>	<b>ug/L</b>	<b>1</b>			
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>0.55</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		97	70-130								
Bromofluorobenzene		98	70-130								
Toluene-d8		101	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1119	MEM	02/03/2015 1349	66749				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		108	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0214	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.0073</b>	<b>J</b>	<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>		

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 MDL

J = Estimated result &lt; 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"

Description: WSW04

Matrix: Aqueous

Date Sampled: 01/29/2015 1347

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/06/2015 0041	PMM2		67068		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	1.5	J	10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		96	70-130						
Bromofluorobenzene		98	70-130						
Toluene-d8		104	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 1130	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		107	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 MDL

J = Estimated result &lt; 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"

Description: MW15

Matrix: Aqueous

Date Sampled: 01/29/2015 1430

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/06/2015 1815	EH1		67107				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
<b>Ethanol</b>	<b>64-17-5</b>	<b>8260B</b>	<b>290</b>		<b>100</b>	<b>33</b>	<b>ug/L</b>	<b>1</b>			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		99	70-130								
Bromofluorobenzene		98	70-130								
Toluene-d8		105	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1140	MEM	02/03/2015 1349	66749				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		95	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0218	CDF	02/03/2015 0930	66736			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	0.0029	J	0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW02

Matrix: Aqueous

Date Sampled: 01/29/2015 1400

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	5	02/06/2015 0345	PMM2		67068			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	36	J	100	34	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1		
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>21</b>		<b>5.0</b>	<b>0.66</b>	<b>ug/L</b>	<b>1</b>		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	5.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.74	ug/L	1		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	2.0	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	5.0	ug/L	1		
Ethanol	64-17-5	8260B	ND		500	170	ug/L	1		
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>45</b>		<b>5.0</b>	<b>1.7</b>	<b>ug/L</b>	<b>1</b>		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1		
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>2.6</b>	<b>J</b>	<b>5.0</b>	<b>2.0</b>	<b>ug/L</b>	<b>1</b>		
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>230</b>		<b>5.0</b>	<b>2.0</b>	<b>ug/L</b>	<b>1</b>		
tert-butyl alcohol (TBA)	75-65-0	8260B	55	J	100	34	ug/L	1		
Toluene	108-88-3	8260B	78		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	120		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		98	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	02/05/2015 1151	MEM	02/03/2015 1349	66749			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		96	57-137							

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0240	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	0.023		0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: DUP A

Matrix: Aqueous

Date Sampled: 01/29/2015 1505

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	10	02/06/2015 0408	PMM2		67068		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	180	J	200	67	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>470</b>		<b>10</b>	<b>1.3</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		50	10	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		10	1.5	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	4.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		200	10	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	330	ug/L	1	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>480</b>		<b>10</b>	<b>3.3</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10	2.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		10	4.0	ug/L	1	
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>590</b>		<b>10</b>	<b>4.0</b>	<b>ug/L</b>	<b>1</b>	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		200	67	ug/L	1	
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>1300</b>		<b>10</b>	<b>3.3</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>820</b>		<b>10</b>	<b>3.3</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		98	70-130						
Bromofluorobenzene		99	70-130						
Toluene-d8		103	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 1201	MEM	02/03/2015 1349	66749		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		89	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0257	CDF	02/03/2015 0930	66737		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.0025</b>	<b>J</b>	<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>	

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 MDL

J = Estimated result &lt; 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"

Description: MW17D

Matrix: Aqueous

Date Sampled: 01/29/2015 1230

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	02/06/2015 0104	PMM2		67068			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>12</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1		
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1		
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>1.0</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1		
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>9.3</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>		
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>3.6</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		97	70-130							
Bromofluorobenzene		98	70-130							
Toluene-d8		102	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	02/05/2015 1212	MEM	02/03/2015 1349	66749			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		93	57-137							

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0301	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.0026</b>	<b>J</b>	<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>		

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 MDL

J = Estimated result &lt; 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"

Description: SW05

Matrix: Aqueous

Date Sampled: 01/29/2015 0840

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	02/06/2015 2310	PMM2		67177			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1		
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1		
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		100	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		106	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	02/05/2015 1222	MEM	02/03/2015 1349	66749			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	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 MDL

J = Estimated result &lt; 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"

Description: MW20

Matrix: Aqueous

Date Sampled: 01/29/2015 1630

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/06/2015 2333	PMM2		67177				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
<b>Ethanol</b>	<b>64-17-5</b>	<b>8260B</b>	<b>89</b>	<b>J</b>	<b>100</b>	<b>33</b>	<b>ug/L</b>	<b>1</b>			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>0.49</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		94	70-130								
Bromofluorobenzene		100	70-130								
Toluene-d8		100	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1232	MEM	02/03/2015 1349	66749				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		99	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0306	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.0077</b>	<b>J</b>	<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>		

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 MDL

J = Estimated result &lt; 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"



Description: MW18

Matrix: Aqueous

Date Sampled: 01/29/2015 1600

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/06/2015 2356	PMM2		67177				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		95	70-130								
Bromofluorobenzene		98	70-130								
Toluene-d8		100	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1313	MEM	02/03/2015 1347	66751				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane	N	152	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0310	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	0.019		0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW01

Matrix: Aqueous

Date Sampled: 01/29/2015 1500

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	10	02/07/2015 0322	PMM2		67177			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	160	J	200	67	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	1		
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>430</b>		<b>10</b>	<b>1.3</b>	<b>ug/L</b>	<b>1</b>		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		50	10	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		10	1.5	ug/L	1		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	4.0	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		200	10	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	330	ug/L	1		
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>410</b>		<b>10</b>	<b>3.3</b>	<b>ug/L</b>	<b>1</b>		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10	2.0	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		10	4.0	ug/L	1		
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>520</b>		<b>10</b>	<b>4.0</b>	<b>ug/L</b>	<b>1</b>		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		200	67	ug/L	1		
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>810</b>		<b>10</b>	<b>3.3</b>	<b>ug/L</b>	<b>1</b>		
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>590</b>		<b>10</b>	<b>3.3</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		94	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		100	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	02/05/2015 1344	MEM	02/03/2015 1347	66751			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		119	57-137							

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0314	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: FIELD BLANK 1

Matrix: Aqueous

Date Sampled: 01/29/2015 1426

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/06/2015 2247	PMM2		67177				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		99	70-130								
Bromofluorobenzene		99	70-130								
Toluene-d8		104	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1354	MEM	02/03/2015 1347	66751				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		128	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 MDL

J = Estimated result &lt; 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"

Description: DUP B

Matrix: Aqueous

Date Sampled: 01/29/2015 0655

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	500	02/07/2015 0345	PMM2		67177			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		10000	3400	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	100	ug/L	1		
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>6500</b>		<b>500</b>	<b>66</b>	<b>ug/L</b>	<b>1</b>		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	500	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		500	74	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	500	ug/L	1		
Ethanol	64-17-5	8260B	ND		50000	17000	ug/L	1		
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>3300</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	100	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	200	ug/L	1		
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>2400</b>		<b>500</b>	<b>200</b>	<b>ug/L</b>	<b>1</b>		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	3400	ug/L	1		
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>39000</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>		
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>17000</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		95	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	02/05/2015 1405	MEM	02/03/2015 1347	66751			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>1,2-Dibromoethane (EDB)</b>	<b>106-93-4</b>	<b>8011</b>	<b>0.059</b>	<b>P</b>	<b>0.019</b>	<b>0.019</b>	<b>ug/L</b>	<b>1</b>		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		107	57-137							

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0319	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.052</b>		<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>		

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 MDL

J = Estimated result &lt; 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"

Description: MW07D

Matrix: Aqueous

Date Sampled: 01/29/2015 0515

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/07/2015 0019	PMM2		67177		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>0.25</b>	<b>J</b>	<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1	
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>1.8</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>0.64</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		94	70-130						
Bromofluorobenzene		97	70-130						
Toluene-d8		99	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 1415	MEM	02/03/2015 1347	66751		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		117	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0332	CDF	02/03/2015 0930	66737		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1	

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 MDL

J = Estimated result &lt; 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"

Description: MW16

Matrix: Aqueous

Date Sampled: 01/29/2015 1530

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/07/2015 0042	PMM2		67177				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
<b>Ethanol</b>	<b>64-17-5</b>	<b>8260B</b>	<b>86</b>	<b>J</b>	<b>100</b>	<b>33</b>	<b>ug/L</b>	<b>1</b>			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		95	70-130								
Bromofluorobenzene		99	70-130								
Toluene-d8		100	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1425	MEM	02/03/2015 1347	66751				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		103	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0336	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	0.0032	J	0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW19

Matrix: Aqueous

Date Sampled: 01/29/2015 1300

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/06/2015 0127	PMM2		67068				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		98	70-130								
Bromofluorobenzene		99	70-130								
Toluene-d8		104	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	02/05/2015 1436	MEM	02/03/2015 1347	66751				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		108	57-137								

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3005A	6010C	1	02/05/2015 0340	CDF	02/03/2015 0930	66737			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Lead	7439-92-1	6010C	0.0031	J	0.010	0.0021	mg/L	1		

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 MDL

J = Estimated result &lt; 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"

Description: MW06

Matrix: Aqueous

Date Sampled: 01/29/2015 1730

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	200	02/06/2015 0431	PMM2		67068		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	2800	J	4000	1300	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	40	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>3500</b>		<b>200</b>	<b>26</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	200	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		200	29	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	200	ug/L	1	
Ethanol	64-17-5	8260B	ND		20000	6600	ug/L	1	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>2200</b>		<b>200</b>	<b>66</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		200	80	ug/L	1	
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>1200</b>		<b>200</b>	<b>80</b>	<b>ug/L</b>	<b>1</b>	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1300	ug/L	1	
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>27000</b>		<b>200</b>	<b>66</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>13000</b>		<b>200</b>	<b>66</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		98	70-130						
Bromofluorobenzene		100	70-130						
Toluene-d8		104	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/05/2015 1446	MEM	02/03/2015 1347	66751		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.028	0.028	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		116	57-137						

## ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3005A	6010C	1	02/05/2015 0345	CDF	02/03/2015 0930	66737		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
<b>Lead</b>	<b>7439-92-1</b>	<b>6010C</b>	<b>0.033</b>		<b>0.010</b>	<b>0.0021</b>	<b>mg/L</b>	<b>1</b>	

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 MDL

J = Estimated result &lt; 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"



Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 01/29/2015

Date Received: 02/02/2015

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	02/05/2015 2246	PMM2		67068				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	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	1.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	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	6.7	ug/L	1			
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		97	70-130								
Bromofluorobenzene		97	70-130								
Toluene-d8		100	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 MDL

J = Estimated result &lt; 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: QQ66874-001

Matrix: Aqueous

Batch: 66874

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/04/2015 1638
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	02/04/2015 1638
Benzene	ND		1	1.0	0.13	ug/L	02/04/2015 1638
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	02/04/2015 1638
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/04/2015 1638
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	02/04/2015 1638
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	02/04/2015 1638
Ethanol	ND		1	100	33	ug/L	02/04/2015 1638
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/04/2015 1638
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	02/04/2015 1638
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/04/2015 1638
Naphthalene	ND		1	1.0	0.40	ug/L	02/04/2015 1638
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	02/04/2015 1638
Toluene	ND		1	1.0	0.33	ug/L	02/04/2015 1638
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/04/2015 1638
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		98	70-130				
Toluene-d8		102	70-130				

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 MDL

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**

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ66874-002

Matrix: Aqueous

Batch: 66874

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	920		1	92	70-130	02/04/2015 1552
tert-Amyl methyl ether (TAME)	50	49		1	98	70-130	02/04/2015 1552
Benzene	50	49		1	99	70-130	02/04/2015 1552
tert-Butyl formate (TBF)	250	200		1	82	70-130	02/04/2015 1552
1,2-Dichloroethane	50	49		1	98	70-130	02/04/2015 1552
Diisopropyl ether (IPE)	50	51		1	102	70-130	02/04/2015 1552
3,3-Dimethyl-1-butanol	1000	960		1	96	70-130	02/04/2015 1552
Ethanol	5000	4700		1	94	60-140	02/04/2015 1552
Ethylbenzene	50	49		1	98	70-130	02/04/2015 1552
Ethyl-tert-butyl ether (ETBE)	50	52		1	103	70-130	02/04/2015 1552
Methyl tertiary butyl ether (MTBE)	50	51		1	103	70-130	02/04/2015 1552
Naphthalene	50	53		1	105	70-130	02/04/2015 1552
tert-butyl alcohol (TBA)	1000	950		1	95	70-130	02/04/2015 1552
Toluene	50	49		1	99	70-130	02/04/2015 1552
Xylenes (total)	100	98		1	98	70-130	02/04/2015 1552
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		97	70-130				
Toluene-d8		103	70-130				

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 MDL

J = Estimated result < PQL and  $\geq$  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**

# Volatile Organic Compounds by GC/MS - MS

Sample ID: QB02030-012MS

Matrix: Aqueous

Batch: 66874

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	5000	4400		5	89	70-130	02/05/2015 0110
tert-Amyl methyl ether (TAME)	ND	250	250		5	100	70-130	02/05/2015 0110
Benzene	7.8	250	260		5	101	72-127	02/05/2015 0110
tert-Butyl formate (TBF)	ND	1300	1200		5	95	70-130	02/05/2015 0110
1,2-Dichloroethane	ND	250	250		5	100	59-143	02/05/2015 0110
Diisopropyl ether (IPE)	ND	250	260		5	105	70-130	02/05/2015 0110
3,3-Dimethyl-1-butanol	ND	5000	4500		5	90	70-130	02/05/2015 0110
Ethanol	ND	25000	20000		5	81	70-130	02/05/2015 0110
Ethylbenzene	120	250	350		5	93	79-132	02/05/2015 0110
Ethyl-tert-butyl ether (ETBE)	ND	250	260		5	106	70-130	02/05/2015 0110
Methyl tertiary butyl ether (MTBE)	ND	250	270		5	107	60-140	02/05/2015 0110
Naphthalene	98	250	320		5	89	62-136	02/05/2015 0110
tert-butyl alcohol (TBA)	61	5000	4600		5	90	70-130	02/05/2015 0110
Toluene	200	250	450		5	102	75-125	02/05/2015 0110
Xylenes (total)	420	500	870		5	90	70-130	02/05/2015 0110
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		96	70-130					
Bromofluorobenzene		101	70-130					
Toluene-d8		102	70-130					

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 MDL

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**

# Volatile Organic Compounds by GC/MS - MSD

Sample ID: QB02030-012MD

Matrix: Aqueous

Batch: 66874

Prep Method: 5030B

Analytical Method: 8260B

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	5000	4500	5		89	0.52	70-130	20	02/05/2015 0133	
tert-Amyl methyl ether (TAME)	ND	250	250	5		100	0.45	70-130	20	02/05/2015 0133	
Benzene	7.8	250	270	5		103	1.7	72-127	20	02/05/2015 0133	
tert-Butyl formate (TBF)	ND	1300	1200	5		95	0.74	70-130	20	02/05/2015 0133	
1,2-Dichloroethane	ND	250	250	5		100	0.093	59-143	20	02/05/2015 0133	
Diisopropyl ether (IPE)	ND	250	270	5		107	1.4	70-130	20	02/05/2015 0133	
3,3-Dimethyl-1-butanol	ND	5000	4600	5		92	2.0	70-130	20	02/05/2015 0133	
Ethanol	ND	25000	22000	5		86	6.2	70-130	20	02/05/2015 0133	
Ethylbenzene	120	250	350	5		93	0.044	79-132	20	02/05/2015 0133	
Ethyl-tert-butyl ether (ETBE)	ND	250	270	5		107	0.99	70-130	20	02/05/2015 0133	
Methyl tertiary butyl ether (MTBE)	ND	250	270	5		109	1.5	60-140	20	02/05/2015 0133	
Naphthalene	98	250	330	5		94	3.4	62-136	20	02/05/2015 0133	
tert-butyl alcohol (TBA)	61	5000	4600	5		91	1.4	70-130	20	02/05/2015 0133	
Toluene	200	250	460	5		104	1.3	75-125	20	02/05/2015 0133	
Xylenes (total)	420	500	870	5		91	0.087	70-130	20	02/05/2015 0133	
Surrogate	Q	% Rec	Acceptance Limit								
1,2-Dichloroethane-d4		96	70-130								
Bromofluorobenzene		100	70-130								
Toluene-d8		102	70-130								

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 MDL

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**

# Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ67068-001

Matrix: Aqueous

Batch: 67068

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/05/2015 2202
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	02/05/2015 2202
Benzene	ND		1	1.0	0.13	ug/L	02/05/2015 2202
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	02/05/2015 2202
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/05/2015 2202
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	02/05/2015 2202
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	02/05/2015 2202
Ethanol	ND		1	100	33	ug/L	02/05/2015 2202
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/05/2015 2202
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	02/05/2015 2202
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/05/2015 2202
Naphthalene	ND		1	1.0	0.40	ug/L	02/05/2015 2202
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	02/05/2015 2202
Toluene	ND		1	1.0	0.33	ug/L	02/05/2015 2202
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/05/2015 2202
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		97	70-130				
1,2-Dichloroethane-d4		98	70-130				
Toluene-d8		103	70-130				

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 MDL

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**

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67068-002

Matrix: Aqueous

Batch: 67068

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	920		1	92	70-130	02/05/2015 2053
tert-Amyl methyl ether (TAME)	50	50		1	99	70-130	02/05/2015 2053
Benzene	50	49		1	98	70-130	02/05/2015 2053
tert-Butyl formate (TBF)	250	240		1	95	70-130	02/05/2015 2053
1,2-Dichloroethane	50	48		1	96	70-130	02/05/2015 2053
Diisopropyl ether (IPE)	50	51		1	102	70-130	02/05/2015 2053
3,3-Dimethyl-1-butanol	1000	920		1	92	70-130	02/05/2015 2053
Ethanol	5000	4800		1	95	60-140	02/05/2015 2053
Ethylbenzene	50	47		1	94	70-130	02/05/2015 2053
Ethyl-tert-butyl ether (ETBE)	50	52		1	103	70-130	02/05/2015 2053
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	02/05/2015 2053
Naphthalene	50	46		1	92	70-130	02/05/2015 2053
tert-butyl alcohol (TBA)	1000	940		1	94	70-130	02/05/2015 2053
Toluene	50	49		1	98	70-130	02/05/2015 2053
Xylenes (total)	100	95		1	95	70-130	02/05/2015 2053
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		97	70-130				
Toluene-d8		105	70-130				

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 MDL

J = Estimated result < PQL and  $\geq$  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**



# Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ67107-001

Matrix: Aqueous

Batch: 67107

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/06/2015 1019
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	02/06/2015 1019
Benzene	ND		1	1.0	0.13	ug/L	02/06/2015 1019
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	02/06/2015 1019
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/06/2015 1019
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	02/06/2015 1019
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	02/06/2015 1019
Ethanol	ND		1	100	33	ug/L	02/06/2015 1019
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/06/2015 1019
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	02/06/2015 1019
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/06/2015 1019
Naphthalene	ND		1	1.0	0.40	ug/L	02/06/2015 1019
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	02/06/2015 1019
Toluene	ND		1	1.0	0.33	ug/L	02/06/2015 1019
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/06/2015 1019

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		103	70-130

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 MDL

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**

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67107-002

Matrix: Aqueous

Batch: 67107

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	950		1	95	70-130	02/06/2015 0932
tert-Amyl methyl ether (TAME)	50	50		1	100	70-130	02/06/2015 0932
Benzene	50	51		1	101	70-130	02/06/2015 0932
tert-Butyl formate (TBF)	250	250		1	98	70-130	02/06/2015 0932
1,2-Dichloroethane	50	50		1	100	70-130	02/06/2015 0932
Diisopropyl ether (IPE)	50	52		1	104	70-130	02/06/2015 0932
3,3-Dimethyl-1-butanol	1000	1000		1	100	70-130	02/06/2015 0932
Ethanol	5000	4800		1	96	60-140	02/06/2015 0932
Ethylbenzene	50	48		1	97	70-130	02/06/2015 0932
Ethyl-tert-butyl ether (ETBE)	50	52		1	105	70-130	02/06/2015 0932
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	02/06/2015 0932
Naphthalene	50	54		1	108	70-130	02/06/2015 0932
tert-butyl alcohol (TBA)	1000	960		1	96	70-130	02/06/2015 0932
Toluene	50	50		1	100	70-130	02/06/2015 0932
Xylenes (total)	100	96		1	96	70-130	02/06/2015 0932
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		105	70-130				

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 MDL

J = Estimated result < PQL and  $\geq$  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**

# Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ67177-001

Matrix: Aqueous

Batch: 67177

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/06/2015 2156
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	02/06/2015 2156
Benzene	ND		1	1.0	0.13	ug/L	02/06/2015 2156
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	02/06/2015 2156
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/06/2015 2156
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	02/06/2015 2156
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	02/06/2015 2156
Ethanol	ND		1	100	33	ug/L	02/06/2015 2156
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/06/2015 2156
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	02/06/2015 2156
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/06/2015 2156
Naphthalene	ND		1	1.0	0.40	ug/L	02/06/2015 2156
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	02/06/2015 2156
Toluene	ND		1	1.0	0.33	ug/L	02/06/2015 2156
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/06/2015 2156
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		105	70-130				

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 MDL

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**

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67177-002

Matrix: Aqueous

Batch: 67177

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	990		1	99	70-130	02/06/2015 2052
tert-Amyl methyl ether (TAME)	50	51		1	102	70-130	02/06/2015 2052
Benzene	50	48		1	96	70-130	02/06/2015 2052
tert-Butyl formate (TBF)	250	250		1	100	70-130	02/06/2015 2052
1,2-Dichloroethane	50	50		1	100	70-130	02/06/2015 2052
Diisopropyl ether (IPE)	50	53		1	105	70-130	02/06/2015 2052
3,3-Dimethyl-1-butanol	1000	1000		1	100	70-130	02/06/2015 2052
Ethanol	5000	5000		1	101	60-140	02/06/2015 2052
Ethylbenzene	50	46		1	91	70-130	02/06/2015 2052
Ethyl-tert-butyl ether (ETBE)	50	52		1	105	70-130	02/06/2015 2052
Methyl tertiary butyl ether (MTBE)	50	53		1	106	70-130	02/06/2015 2052
Naphthalene	50	50		1	101	70-130	02/06/2015 2052
tert-butyl alcohol (TBA)	1000	1000		1	100	70-130	02/06/2015 2052
Toluene	50	48		1	96	70-130	02/06/2015 2052
Xylenes (total)	100	93		1	93	70-130	02/06/2015 2052
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		105	70-130				

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 MDL

J = Estimated result < PQL and  $\geq$  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 - MB

Sample ID: QQ66748-001

Batch: 66748

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 02/03/2015 1010

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	02/04/2015 1248
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		87	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 MDL

J = Estimated result < PQL and  $\geq$  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**

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## EDB & DBCP by Microextraction - LCS

Sample ID: QQ66748-002

Matrix: Aqueous

Batch: 66748

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/03/2015 1010

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	116	60-140	02/04/2015 1259
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		93	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 MDL

J = Estimated result < PQL and  $\geq$  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 - MB

Sample ID: QQ66749-001

Batch: 66749

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 02/03/2015 1349

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	02/05/2015 0834
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		87	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 MDL

J = Estimated result < PQL and  $\geq$  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**

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# EDB & DBCP by Microextraction - LCS

Sample ID: QQ66749-002

Matrix: Aqueous

Batch: 66749

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/03/2015 1349

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.30		1	118	60-140	02/05/2015 0844
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		100	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 MDL

J = Estimated result < PQL and  $\geq$  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 - MS

Sample ID: QB02030-009MS

Matrix: Aqueous

Batch: 66749

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/03/2015 1349

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	0.29		1	117	60-140	02/05/2015 0905
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		98	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 MDL

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 - MSD

Sample ID: QB02030-009MD

Matrix: Aqueous

Batch: 66749

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/03/2015 1349

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	0.24	0.29		1	117	0.77	60-140	20	02/05/2015 0915
Surrogate	Q	% Rec	Acceptance Limit							
1,1,1,2-Tetrachloroethane		99	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 MDL

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 - MB

Sample ID: QQ66751-001

Batch: 66751

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 02/03/2015 1347

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	02/05/2015 1253
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		100	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 MDL

J = Estimated result < PQL and  $\geq$  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**

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# EDB & DBCP by Microextraction - LCS

Sample ID: QQ66751-002

Matrix: Aqueous

Batch: 66751

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/03/2015 1347

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.28		1	114	60-140	02/05/2015 1303
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		99	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 MDL

J = Estimated result < PQL and  $\geq$  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 - MS

Sample ID: QB02030-029MS

Matrix: Aqueous

Batch: 66751

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/03/2015 1347

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.26	0.30		1	116	60-140	02/05/2015 1323
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		90	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 MDL

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 - MSD

Sample ID: QB02030-029MD

Matrix: Aqueous

Batch: 66751

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/03/2015 1347

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	0.31		1	123	2.3	60-140	20	02/05/2015 1334
Surrogate	Q	% Rec	Acceptance Limit							
1,1,1,2-Tetrachloroethane		96	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 MDL

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**

# ICP-AES - MB

Sample ID: QQ66736-001

Batch: 66736

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 02/03/2015 930

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Lead	ND		1	0.010	0.0021	mg/L	02/05/2015 0017

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 MDL

J = Estimated result < PQL and  $\geq$  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**

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# ICP-AES - LCS

Sample ID: QQ66736-002

Matrix: Aqueous

Batch: 66736

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 02/03/2015 930

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.42		1	105	80-120	02/05/2015 0022

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 MDL

J = Estimated result < PQL and  $\geq$  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**



# ICP-AES - MB

Sample ID: QQ66737-001

Batch: 66737

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 02/03/2015 930

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Lead	ND		1	0.010	0.0021	mg/L	02/05/2015 0223

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 MDL

J = Estimated result < PQL and  $\geq$  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**

# ICP-AES - LCS

Sample ID: QQ66737-002

Matrix: Aqueous

Batch: 66737

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 02/03/2015 930

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.40		1	101	80-120	02/05/2015 0227

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 MDL

J = Estimated result < PQL and  $\geq$  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**

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# ICP-AES - MS

Sample ID: QB02030-024MS

Matrix: Aqueous

Batch: 66737

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 02/03/2015 930

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.023	0.40	0.43		1	103	75-125	02/05/2015 0244

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 MDL

J = Estimated result < PQL and  $\geq$  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**

# ICP-AES - MSD

Sample ID: QB02030-024MD

Batch: 66737

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 02/03/2015 930

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.023	0.40	0.44		1	105	2.0	75-125	20	02/05/2015 0248

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 MDL

J = Estimated result < PQL and  $\geq$  MDL



+ = RPD is out of criteria

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


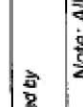
**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

**Chain of Custody Record**      **Number 45012**

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Client <b>Petra-Tech Environmental</b> Address 2435 East North St., Suite 1108 -202 City Greenville Project Name Burnette's Service Station Project No. 514-080-A State SC Zip Code 29615	Report to Contact <b>Trevor Slack</b> Sampler's Signature  Printed Name <b>Jimmy Slagter</b>	Telephone No. / E-mail 751ack@petratechenv.com Analysis (Attach list if more space is necessary) M+N+1, PCB, BTEX+BTX	Quote No. 4 of 6  QB02030		
Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Matrix	No. of Containers by Preservative Type	Remarks / Cooler I.D.
MW10	1/29/15	1030	X	16	8011 EPB X Cooler C
MW19D	1/29/15	130	X	16	X X Cooler C
MW20	1/29/15	1100	X	16	X X Cooler C
SW04	1/29/15	1751	X	6	X Cooler C
WSW01	1/29/15	1742	X	6	X Cooler C
SW02	1/29/15	1653	X	6	X Cooler C
SW01	1/29/15	1721	X	6	X Cooler C
MW08	1/29/15	1706	X	16	X Cooler D
MW03	1/29/15	630	X	16	X Cooler D

Turn Around Time Required (Prior lab approval required for expedited TAT) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Possible Hazard Identification <input checked="" type="checkbox"/> Corrosive <input type="checkbox"/> Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	GC Requirements (Specify) Volatile Date: 2/2/15 Time: 1557
1. Relinquished by:  Date: 2/2/15	2. Relinquished by: _____ Date: _____	3. Relinquished by: _____ Date: _____
4. Relinquished by:  Date: 2/2/15	5. Relinquished by: _____ Date: _____	6. Relinquished by: _____ Date: _____

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY  
 Received on line (Circle)  No Ice Pack  Receipt Temp. 0.9 °C



## Chain of Custody Record

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Number **45066**

Client <b>Petra-Tech Environmental</b> Address 2435 East North St. - 202 City Greenville State SC Zip Code 29615 Project Name <b>Burnette's Service Station</b> P.O. No. 314-080-A	Report to Contact <b>Trever Slack</b> Sampler's Signature  Printed Name <b>Jimmy Slagh</b>	Telephone No. / E-mail 82608+BTX / tslack@petratelab.com Analysis (Attach list if more space is needed) 82608+BTX 12PCA 8011 EDB	Quote No. Page <b>5</b> of <b>6</b>  <b>QB02030</b>				
Sample ID / Description (Containers for each sample may be combined on one line.) NSW03 M1W07 WSW04 MW15 MN02 DUP A MW17 D SW05 MW20 MW18	Date 1/29/15 1/29/15 1/29/15 1/29/15 1/29/15 1/29/15 1/29/15 1/29/15 1/29/15 1/29/15	Time 1309 500 1347 230 200 305 1230 840 430 400	Matrix Gx X X X X X X X X X	No. of Containers by Preservative Type 6 16 6 16 16 16 16 16 16 16	Disposal by Lab <input checked="" type="checkbox"/> Return to Client <input type="checkbox"/> Incineration <input type="checkbox"/> Landfill <input type="checkbox"/> Other	Pressing Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	QC Requirements (Specify) Time Date Date Date Date
Turn Around Time Required (Prior lab approval required for expedited TAT.) Standard <input type="checkbox"/> Rush (Specify)		Date 2/2/15	Time 1857	1. Requisitioned by 	1. Received by 	Date 2/2/15	Time 1557
2. Requisitioned by		Date	Time	2. Received by		Date	Time
3. Requisitioned by		Date	Time	3. Received by		Date	Time
4. Requisitioned by		Date 2/2/15	Time 1857	4. Laboratory received by 		Date 2/2/15	Time 1557
Note: All samples are retained for four weeks from receipt unless other arrangements are made.							
LAB USE ONLY Received on (Yes/No) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Receipt Temp. <b>0.9</b> °C	Receipt Temp. <b>0.9</b> °C

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**Number 45010**

**Chain of Custody Record**

Client <b>Petra - Tech Env.</b>		Report to Contact <b>Trener Slack</b>		Telephone No. / E-mail <b>tslack@petrotechenv.com</b>		Quote No. <b>QB02030</b>	
Address <b>2435 East North St. Suite 1108-202</b>		Sampler's Signature <i>[Signature]</i>		Analysis (Attach list if more space is needed)		Form <b>6</b> of <b>6</b>	
City <b>Greenville</b>		State <b>SC</b>		Zip Code <b>29615</b>		Barcode	
Project Name <b>Burnettes Service Station</b>		Printed Name <b>Jimmy Slagh</b>		Project No. <b>514-080-A</b>		Remarks / Cooler I.D. <b>Cooler D</b>	
Sample ID / Description <b>MW01</b>		Date <b>1/29/15</b>		Time <b>300</b>		Matrix	
Field blank 1		1/29/15		226		No. of Containers by Preservative Type	
DUP B		1/29/15		655		None	
MW07D		1/29/15		515		16	
MW16		1/29/15		330		16	
MW19		1/29/15		100		16	
MW06		1/29/15		530		16	
Temp blank						2	
Trip blank							

Turn Around Time Required (After lab approval required for expedited TAT)	Sample Disposal	Possible Hazard Identification	QC Requirements (Specify)
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Request by Lab	<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	<b>2/2/15</b> Time <b>1225</b>
1. Relinquished by <i>[Signature]</i>	Date <b>2/2/15</b> Time <b>1225</b>		Date _____ Time _____
2. Relinquished by _____	Date _____ Time _____		Date _____ Time _____
3. Relinquished by _____	Date _____ Time _____		Date _____ Time _____
4. Relinquished by <i>[Signature]</i>	Date <b>2/2/15</b> Time <b>1557</b>		Date <b>2/2/15</b> Time <b>1557</b>

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY  
 Received on ice (Circle)  No Ice Pack  Receipt Temp. **0.9** °C

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: F-AD-016  
 Revision Number: 16

Page 1 of 1  
 Replaces Date: 07/15/14  
 Effective Date: 11/07/14

## Sample Receipt Checklist (SRC)

Client: Petra-Tech Cooler Inspected by/date: MAM/02015 Lot #: QB02031

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>12.5/24</u> °C / / °C / / °C / / °C		
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>#4</u> IR Gun Correction Factor: <u>6.1</u> °C		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	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 <input type="checkbox"/>	No <input type="checkbox"/>	4. Is the commercial courier's packing slip attached to this form?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	5a. Were samples relinquished by client to commercial courier?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	6. Were sample IDs listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	7. Were sample IDs listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8. Was collection date & time listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	9. Was collection date & time listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	10. Did all container label information (ID, date, time) agree with the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	11. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	12. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	14. Was adequate sample volume available?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	16. Were any samples containers missing?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	17. Were there any excess samples not listed on COC?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	22. Were collection temperatures documented on the COC for NC samples?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>	24. Was the quote number used taken from the container label?
<b>Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)</b>		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____		
Sample(s) _____ 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: <u>MAM</u> Verified by: _____ Date: <u>2/2/15</u>		

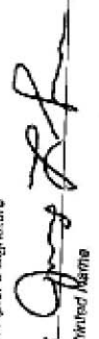




Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**SHEALY ENVIRONMENTAL SERVICES, INC.**  
 106 Vantage Point Drive • West Columbia, SC 29172  
 Telephone No. 803-791-9700 Fax No. 803-791-9111  
 www.shealylab.com

**Number 45014**

**Chain of Custody Record**

Report to Contact <b>Trevor Slack</b> Sampler's Signature  Printed Name <b>Trevor Slack</b>		Telephone No. / E-mail <b>tslack@petratetechnx.com</b>	Quote No. _____
Address <b>2435 East North St. Suite 108</b> City <b>Greenville</b>		State <b>SC</b>	Zip Code <b>29615</b>
Project Name <b>Burnette's Service Station Jimmy Slag L</b>		Analysis (Almost list if more space is needed) <b>8011 EOB</b> <b>+BTEX+MHC</b> <b>+1,2,4</b>	Pages <b>3</b> of <b>6</b>
Project No. <b>J14-080-A</b>	Matrix Air Soil Sediment Sludge Other	No. of Containers by Preservative Type HCL HNO3 H2SO4 H3PO4 H2O2 Other	Remarks / Cooler I.D. <b>Cooler C</b>
Sample ID / Description (Containers for each sample may be combined on one line) <b>Trip blank</b> <b>Temp blank</b> <b>MW17</b> <b>MW05</b> <b>MW04</b> <b>MW09</b> <b>MW14D</b> <b>MW14</b> <b>MW11</b> <b>MW13</b>	Date <b>1/29/15 1155</b> <b>1/29/15 900</b> <b>1/29/15 820</b> <b>1/29/15 930</b> <b>1/29/15 730</b> <b>1/29/15 700</b> <b>1/29/15 1000</b> <b>1/29/15 800</b>	No. of Containers by Preservative Type HCL HNO3 H2SO4 H3PO4 H2O2 Other	OC Requirements (Specify) _____
Turn Around Time Required (Prior lab approval required for expedited TAT.) Standard <input type="checkbox"/> Rush <input type="checkbox"/> (Specify) _____		Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	
1. Refurnished by 		1. Received by 	
2. Refurnished by _____		2. Received by _____	
3. Refurnished by _____		3. Received by _____	
4. Refurnished by 		4. Laboratory received by 	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		Received on ice (Circle) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (Ice Pack) _____	
Date <b>1/29/15</b>		Date <b>2/21/15</b>	
Time <b>857</b>		Time <b>1557</b>	
Date <b>1/29/15</b>		Date <b>2/21/15</b>	
Time <b>800</b>		Time <b>1557</b>	

**DISTRIBUTION: WHITE & YELLOW: Return to laboratory with Sample(s); PINK: Field/Client Copy**

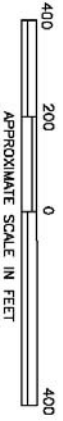
**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX C**

**TAX MAP AND TAX MAP INFORMATION TABLE**



REFERENCE: Jasper County Online GIS Tax Map Database



Title	Tax Map
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County
Date	02/25/2018
Job No.	J14-080-A
 ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	
Figure No.	X

**TAX MAP TABLE**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

Tax Map Property ID	Jasper County Tax Map Number	Property Address	Property Owner Name	Property Owner Phone	Property Owner Mailing Address	Notes
1	062-22 -03-001	11577 N. JACOB SMART BOULEVARD	HENRY TORRES, JR.	UNLISTED	721 N HWY 17 RIDGELAND, SC 29936	UST Permit #05289; Private water supply well WSW01
2	063-27 -12-001	11469 N. JACON SMART BOULEVARD	PLANTATION INVESTMENTS	UNLISTED	PO BOX 579 HARTSVILLE, SC 29551	Private water supply well WSW02
3	063-27 -12-002	11433 N. JACOB SMART BOULEVARD	BHIKHUBHAI PATEL	UNLISTED	11433 N. JACOB SMART BLVD. RIDGELAND, SC 29936	
4	063-27 -13-003	UNLISTED ADDRESS	J W FELL, JR.	UNLISTED	PO BOX 700 SEABROOK, SC 29940	
5	063-27 -13-002	UNLISTED ADDRESS	J W FELL, JR.	UNLISTED	PO BOX 700 SEABROOK, SC 29940	
6	063-27 -13-001	N. JACOB SMART BOULEVARD	J W FELL, JR.	UNLISTED	PO BOX 700 SEABROOK, SC 29940	
7	063-30 -01-001	UNLISTED ADDRESS	THREE STAR DEVELOPMENT	843-263-6724	617 BAILEY LANE RIDGELAND, SC 29936	Surface water sampling location SW04 and SW05; Groundwater monitoring wells 05289-MW17, 05289-MW17D, 05289-MW19, and 05289-MW19D installed in DOT R.O.W.
8	063-22 -04-002	N. JACOB SMART BOULEVARD	JOHN KALINOWSKY	UNLISTED	492 GREAT SWAMP ROAD RIDGELAND, SC 29936	
9	063-22 -04-001	660 N. JACOB SMART BOULEVARD	JOHN KALINOWSKY	UNLISTED	492 GREAT SWAMP ROAD RIDGELAND, SC 29936	
10	063-00 -08-003	11754 N. JACOB SMART BOULEVARD	JOSEPH URBANEK	803-917-4171	128 BARTON BEND LANE COLUMBIA, SC 29206	Private water supply well WSW03; Surface water sampling location SW03
11	062-22 -02-001	700 N. GREEN STREET	CLAIRE LINDGREN IRREVOCABLE TRUST	843-689-2226	PO BOX 23164 HILTON HEAD, SC 29925	Groundwater monitoring wells 05289-MW15, 05289-MW16, 05289-MW18, and 05289-MW20

**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX D**

**SOIL BORING LOGS, FIELD SCREENING LOGS, WATER WELL RECORDS  
(DHEC FORM 1903)**



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland State: SC Zip:
Phone: N/A

7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergenoy
Test Well Monitor Well Replacement

2. LOCATION OF WELL: COUNTY: Jasper
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland, South Carolina

9. WELL DEPTH (completed)
8 ft. Date Started: 12/8/14
Date Completed: 12/8/14

3. PUBLIC SYSTEM NAME: 05289- Gw01

10. CASING: Threaded Welded
Diameter:
Type:
Height: Below
Surface:
Drive Shoe: Weight: lb./ft.

4. ABANDONMENT: Yes
Grouted Depth: from 0.00 to 8 ft.

11. SCREEN:
Type: Diameter:
Slot/Gauge: Length:
Set Between: ft. and
Sieve Analysis: Y/N

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum

12. STATIC WATER LEVEL ft. below land surface after 24 hours.
13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack)
Installed from: ft. to
Effective Size: Uniformity Coefficient:

16. WELL GROUDED?
Neat Cement Bentonite Bentonite/Cement Other
Depth: From ft. to ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey CERT NO.: 1920
Address: 2047 Industrial Blvd Level: A B C D
Lexington, SC 29072 (circle one)
Telephone: 803.429.5001 Fax:

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.

5. REMARKS: PIO /OVA 602ppm

Signed: [Signature]
Date: 12/8/14

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

If D Level Driller, provide supervising driller's name.
Jason Chiorazzi 1790B
Joe Smith 1648B





**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Burnette's Service Station  
 Address: (last) (first)  
 11577 N. Jacob Smart Blvd  
 City: Ridgeland State: SC Zip:  
 Phone: N/A

**7. PERMIT NUMBER:** MWA #UMW-25658; UST Permit #05289

**8. USE:**  
 Residential Irrigation Test Well  
 Public Supply Air Conditioning Monitor Well  
 Process Emergency Replacement

**9. WELL DEPTH (completed):**  
 8 ft. Date Started: 12/8/14 Date Completed: 12/8/14

**2. LOCATION OF WELL:** COUNTY: Jasper  
 Name: Burnette's Service Station  
 Address: 11577 N. Jacob Smart Blvd  
 City: Ridgeland, South Carolina  
 32° 29' 29.37" N 80° 53' 33.67" W

**10. CASING:** Threaded Welded  
 Diameter: Type: Height: Below Surface: Drive Shoe: Weight: lb./ft.

**3. PUBLIC SYSTEM NAME:** 05289-GW03

**11. SCREEN:** Type: Diameter: Slot/Gauge: Length: Set Between: Sieve Analysis: Y/N

**4. ABANDONMENT:** Yes  
 Grouted Depth: from 0.00 to 8 ft.

**12. STATIC WATER LEVEL:** ft. below land surface after 24 hours.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**13. PUMPING LEVEL Below Land Surface:** ft. after hrs Pumping GPM  
 Pumping Test: Yield:

**14. WATER QUALITY:** Chemical Analysis: Bacterial Analysis:

**15. ARTIFICIAL FILTER (filter pack):** Installed from: Effective Size: Uniformity Coefficient:

**16. WELL GROUDED?:** Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From ft. to ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ft. direction  
 Type: Well Disinfected: Type: Amount:

**18. PUMP:** Date installed: Mfr. Name: Model no.: H.P.: Capacity: Volts: Length of pipe: TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Michael Carey CERT NO.: 1920  
 Address: 2047 Industrial Blvd Level: A B C D  
 Lexington, SC 29072 (circle one)  
 Telephone: 803.429.5001 Fax:

**5. REMARKS:** RID/VA 27pm

**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: [Signature] Date: 12/8/14

**6. TYPE:** Mud Rotary Jetted Bored Dug Air Rotary Driven Cable tool Auger Other

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B Joe Smith 1848B





## Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<p><b>1. WELL OWNER INFORMATION:</b></p> <p>Name: <b>Burnette's Service Station</b></p> <p style="padding-left: 20px;">(last) (first)</p> <p>Address: <b>11577 N. Jacob Smart Blvd</b></p> <p>City: <b>Ridgeland</b> State: <b>SC</b> Zip: _____</p> <p>Phone: <b>N/A</b></p>	<p><b>7. PERMIT NUMBER:</b> <b>MWA #UMW-25658; UST Permit #05289</b></p> <p><b>8. USE:</b></p> <table style="width: 100%; font-size: small;"> <tr> <td>Residential</td> <td>Public Supply</td> <td>Process</td> </tr> <tr> <td>Irrigation</td> <td>Air Conditioning</td> <td>Emergency</td> </tr> <tr> <td style="border: 1px solid black; border-radius: 50%;">Test Well</td> <td>Monitor Well</td> <td>Replacement</td> </tr> </table>	Residential	Public Supply	Process	Irrigation	Air Conditioning	Emergency	Test Well	Monitor Well	Replacement																																																																														
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<p><b>2. LOCATION OF WELL:</b> COUNTY: <b>Jasper</b></p> <p>Name: <b>Burnette's Service Station</b></p> <p>Address: <b>11577 N. Jacob Smart Blvd</b></p> <p>City: <b>Ridgeland, South Carolina</b></p> <p><i>32° 29' 29.38" N 80° 58' 33.66" W</i></p>	<p><b>9. WELL DEPTH</b> (completed)</p> <p style="font-size: large; text-align: center;"><i>30</i></p> <p style="text-align: right;">Date Started: <i>12/8/14</i> Date Completed: <i>12/8/14</i></p>																																																																																							
	<p><b>3. PUBLIC SYSTEM NAME:</b> <b>05289-GW03D</b></p>	<p><b>10. CASING:</b></p> <p style="text-align: center;">Threaded _____ Welded _____</p> <p>Diameter: _____</p> <p>Type: _____</p> <p style="text-align: right;">_____ in. to _____ ft. depth _____ in. to _____ ft. depth</p> <p>Height: <b>Below</b></p> <p>Surface: _____ ft. Weight: _____ lb./ft.</p> <p>Drive Shoe: _____</p>																																																																																						
<p><b>4. ABANDONMENT:</b> <b>Yes</b></p> <p>Grouted Depth: from <u>0.00</u> to <u>30</u> ft.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 60%;">Formation Description</th> <th style="width: 10%;">Thickness of Stratum</th> <th style="width: 30%;">Depth to Bottom of Stratum</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																																																																																					<p><b>11. SCREEN:</b></p> <p>Type: _____ Diameter: _____</p> <p>Slot/Gauge: _____ Length: _____</p> <p>Set Between: _____ ft. and _____ ft. _____ ft. and _____ ft.</p> <p>Sieve Analysis: <b>Y/N</b></p>
Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																																																																																						
<p><b>5. REMARKS:</b></p> <p><i>Refusal @ 30' P10/VA 2.7m</i></p>	<p><b>12. STATIC WATER LEVEL</b> _____ ft. below land surface after 24 hours.</p> <p><b>13. PUMPING LEVEL</b> Below Land Surface.</p> <p>_____ ft. after _____ hrs Pumping <b>GPM</b></p> <p>Pumping Test: _____</p> <p>Yield: _____</p>																																																																																							
<p><b>6. TYPE:</b></p> <table style="width: 100%; font-size: small;"> <tr> <td>Mud Rotary</td> <td>Jetted</td> <td style="border: 1px solid black; border-radius: 50%;">Bored</td> </tr> <tr> <td>Dug</td> <td>Air Rotary</td> <td>Driven</td> </tr> <tr> <td>Cable tool</td> <td>Auger</td> <td>Other</td> </tr> </table>	Mud Rotary	Jetted	Bored	Dug	Air Rotary	Driven	Cable tool	Auger	Other	<p><b>14. WATER QUALITY</b></p> <p>Chemical Analysis: _____ Bacterial Analysis: _____</p> <p><b>15. ARTIFICIAL FILTER</b> (filter pack)</p> <p>Installed from: _____ ft. to _____ ft.</p> <p>Effective Size: _____ Uniformity Coefficient: _____</p> <p><b>16. WELL GROUDED?</b></p> <table style="width: 100%; font-size: small;"> <tr> <td>Neat Cement</td> <td>Bentonite</td> <td>Bentonite/Cement</td> <td>Other</td> </tr> <tr> <td>Depth: From</td> <td>ft. to</td> <td>ft. to</td> <td>ft.</td> </tr> </table> <p><b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. direction</p> <p>Type: _____</p> <p>Well Disinfected: _____ Type: _____ Amount: _____</p> <p><b>18. PUMP:</b> Date installed: _____</p> <p>Mfr. Name: _____ Model no.: _____</p> <p>H.P.: _____ Volts: _____ Length of pipe: _____ ft.</p> <p>Capacity: _____ gpm</p> <p>TYPE:</p> <table style="width: 100%; font-size: small;"> <tr> <td>Submersible</td> <td>Jet (shallow)</td> <td>Turbine</td> </tr> <tr> <td>Jet (deep)</td> <td>Reciprocating</td> <td>Centrifugal</td> </tr> </table>	Neat Cement	Bentonite	Bentonite/Cement	Other	Depth: From	ft. to	ft. to	ft.	Submersible	Jet (shallow)	Turbine	Jet (deep)	Reciprocating	Centrifugal																																																																
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<p><b>19. WELL DRILLER:</b></p> <p><b>Michael Carey</b> <b>CERT NO.: 1920</b></p> <p>Address: <b>2047 Industrial Blvd</b> Level: <b>A B C <input checked="" type="radio"/> D</b></p> <p style="text-align: right;"><b>Lexington, SC 29072</b> (circle one)</p> <p>Telephone: <b>803.429.5001</b> Fax: _____</p>	<p><b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.</p> <p style="text-align: right; font-size: large;"><i>Michael Carey</i></p> <p>Signed: _____</p> <p>Date: <u>12/8/14</u></p> <p>If D Level Driller, provide supervising driller's name.</p> <p>Jason Chiorazzi 1790B Joe Smith 1648B</p>																																																																																							



# Water Well Record

Bureau of Water  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
Name: Burnette's Service Station

Address: (last) (first)  
11577 N. Jacob Smart Blvd

City: Ridgeland State: SC Zip:

Phone: N/A

**7. PERMIT NUMBER:** MWA #UMW-25658; UST Permit #05289

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	Monitor Well	Replacement

**9. WELL DEPTH (completed)**  
8 ft. Date Started: 12/8/14 Date Completed: 12/8/14

**2. LOCATION OF WELL: COUNTY: Jasper**

Name: Burnette's Service Station  
Address: 11577 N. Jacob Smart Blvd  
City: Ridgeland, South Carolina

**10. CASING:**

Threaded Welded

Diameter: \_\_\_\_\_ Type: \_\_\_\_\_

Height: Below

Surface: \_\_\_\_\_ ft. Weight: lb./ft.

Drive Shoe: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** 05289-GW04

**11. SCREEN:**

Type: \_\_\_\_\_ Diameter: \_\_\_\_\_

Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_

Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.

Sieve Analysis: Y/N

**4. ABANDONMENT: Yes**

Grouted Depth: from 0.00 to 8 ft.

**12. STATIC WATER LEVEL** ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.

ft. after \_\_\_\_\_ hrs Pumping GPM

Pumping Test: \_\_\_\_\_ Yield: \_\_\_\_\_

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**14. WATER QUALITY**

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**

Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement Bentonite Bentonite/Cement Other

Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ft. direction

Type: \_\_\_\_\_

Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_

Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_

H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: ft.

Capacity: \_\_\_\_\_ gpm

TYPE: Submersible Jet (shallow) Turbine  
Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Michael Carey **CERT NO.: 1920**

Address: 2047 Industrial Blvd Level: A B C  D

Lexington, SC 29072 (circle one)

Telephone: 803.429.5001 Fax: \_\_\_\_\_

**5. REMARKS:** PID/VA 12.6 ppm

**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: 12/8/14

**6. TYPE:** Mud Rotary Jetted Bored  
Dug Air Rotary  Driven  
Cable tool Auger Other

If D Level Driller, provide supervising driller's name.

Jason Chiorazzi 1790B  
Joe Smith 1648B



### Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>Burnette's Service Station</b>  Address: (last) (first) <b>11577 N. Jacob Smart Blvd</b>  City: <b>Ridgeland</b> State: <b>SC</b> Zip:  Phone: <b>N/A</b>			<b>7. PERMIT NUMBER:</b> <b>MWA #UMW-25658; UST Permit #05289</b>																																																											
<b>2. LOCATION OF WELL:</b> COUNTY: <b>Jasper</b> Name: <b>Burnette's Service Station</b> Address: <b>11577 N. Jacob Smart Blvd</b> City: <b>Ridgeland, South Carolina</b>  <b>32°29'28.77"N 80°58'34.17"W</b>			<b>8. USE:</b> Residential _____ Public Supply _____ Process _____ Irrigation _____ Air Conditioning _____ Emergency _____ <input checked="" type="checkbox"/> <b>Test Well</b> _____ Monitor Well _____ Replacement _____																																																											
<b>3. PUBLIC SYSTEM NAME:</b> <b>05289-Gwas</b>			<b>9. WELL DEPTH (completed)</b> <b>8</b> ft. Date Started: <b>12/8/14</b> Date Completed: <b>12/8/14</b>																																																											
<b>4. ABANDONMENT:</b> <b>Yes</b> Grouted Depth: from <b>0.00</b> to <b>8</b> ft.			<b>10. CASING:</b> Threaded _____ Welded _____ Diameter: _____ Type: _____ Height: Below _____ Surface: _____ ft. Weight: _____ lb./ft. Drive Shoe: _____																																																											
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Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																																																												
<b>5. REMARKS:</b>  <div style="text-align: right; font-size: 1.2em;"><i>A&amp;D/VA 6.9 ppm</i></div>			<b>12. STATIC WATER LEVEL</b> _____ ft. below land surface after 24 hours. <b>13. PUMPING LEVEL</b> Below Land Surface: _____ ft. after _____ hrs Pumping GPM Pumping Test: _____ Yield: _____																																																											
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If D Level Driller, provide supervising driller's name. Jason Chiorazzi 1790B Joe Smith 1548B			<b>18. PUMP:</b> Date installed: _____ Mfr. Name: _____ Model no.: _____ H.P.: _____ Volts: _____ Length of pipe: _____ ft. Capacity: _____ gpm TYPE: _____ <table style="width: 100%;"> <tr> <td style="width: 33%;">Submersible</td> <td style="width: 33%;">Jet (shallow)</td> <td style="width: 33%;">Turbine</td> </tr> <tr> <td>Jet (deep)</td> <td>Reciprocating</td> <td>Centrifugal</td> </tr> </table>			Submersible	Jet (shallow)	Turbine	Jet (deep)	Reciprocating	Centrifugal																																																			
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Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland State: SC Zip:
Phone: N/A

7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289

8. USE:
Residential Irrigation Test Well
Public Supply Air Conditioning Monitor Well
Process Emergency Replacement

9. WELL DEPTH (completed)
8 ft.
Date Started: 12/8/14
Date Completed: 12/8/14

2. LOCATION OF WELL: COUNTY: Jasper
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland, South Carolina

10. CASING: Threaded Welded
Diameter:
Type:
Height: Below
Surface:
Drive Shoe:

3. PUBLIC SYSTEM NAME: 05289-Gwob

11. SCREEN:
Type:
Slot/Gauge:
Set Between:
Sieve Analysis: Y/N
Diameter:
Length:
ft. and
ft. and

4. ABANDONMENT: Yes
Grouted Depth: from 0.00 to 8 ft.

12. STATIC WATER LEVEL ft. below land surface after 24 hours.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Multiple empty rows.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack)
Installed from: ft. to ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUDED?
Neat Cement Bentonite Bentonite/Cement Other
Depth: From ft. to ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey CERT NO.: 1920
Address: 2047 Industrial Blvd Level: A B C D
Lexington, SC 29072 (circle one)
Telephone: 803.429.5001 Fax:

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.

5. REMARKS: ASD/OVA 6.8gpm

Signed: [Signature]
Date: 12-18-14

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

If D Level Driller, provide supervising driller's name.
Jason Chiorazzi 1790B
Joe Smith 1648B



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) (first)  
**11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential  Public Supply  Process   
 Irrigation  Air Conditioning  Emergency   
Test Well  Monitor Well  Replacement

**9. WELL DEPTH (completed):**  
 8 ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**

**10. CASING:** Threaded  Welded   
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Height: **Below**  
 Surface: \_\_\_\_\_ ft. Weight: **lb./ft.**  
 Drive Shoe: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** **05289- GWO7**

**4. ABANDONMENT:** Yes  
 Grouted Depth: from **0.00** to **8** ft.

**11. SCREEN:**  
 Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: **Y/N**

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUDED?**  
 Neat Cement  Bentonite  Bentonite/Cement  Other   
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: **Submersible**  Jet (shallow)  Turbine   
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** **Michael Carey** **CERT NO.: 1920**  
 Address: **2047 Industrial Blvd** Level: **A B C D**  
**Lexington, SC 29072** (circle one)  
 Telephone: **803.429.5001** Fax: \_\_\_\_\_

**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.

**5. REMARKS:**  
**P10/VA 34ppm**

Signed: **M.C. Carey**  
 Date: **12/8/14**

**6. TYPE:** Mud Rotary  Jetted  Bored   
 Dug  Air Rotary  Driven   
 Cable tool  Auger  Other

If D Level Driller, provide supervising driller's name.  
**Jason Chiorazzi 1790B**  
**Joe Smith 1648B**



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Burnette's Service Station  
 Address: (last) (first)  
 11577 N. Jacob Smart Blvd  
 City: Ridgeland State: SC Zip:  
 Phone: N/A

**7. PERMIT NUMBER:** MWA #UMW-25658; UST Permit #05289

**8. USE:**  
 Residential Public Supply Process  
 Irrigation Air Conditioning Emergency  
Test Well Monitor Well Replacement

**2. LOCATION OF WELL:** COUNTY: Jasper  
 Name: Burnette's Service Station  
 Address: 11577 N. Jacob Smart Blvd  
 City: Ridgeland, South Carolina  
 32° 29' 29.17" N 80° 58' 34.91" W

**9. WELL DEPTH (completed):**  
 20 ft. Date Started: 12/8/14  
 Date Completed: 12/8/14

**3. PUBLIC SYSTEM NAME:** 05289-  
 GW07D

**10. CASING:** Threaded Welded  
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: Below  
 Surface: \_\_\_\_\_ ft. Weight: lb./ft.  
 Drive Shoe: \_\_\_\_\_

**4. ABANDONMENT:** Yes  
 Grouted Depth: from 0.00 to 20 ft.

**11. SCREEN:**  
 Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: Y/N

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**12. STATIC WATER LEVEL:** \_\_\_\_\_ ft. below land surface after 24 hours.  
**13. PUMPING LEVEL:** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Michael Carey **CERT NO.:** 1920  
 Address: 2047 Industrial Blvd Level: A B C D  
 Lexington, SC 29072 (circle one)  
 Telephone: 803.429.5001 Fax: \_\_\_\_\_

**5. REMARKS:**  
 Refusal @ 20' PID/OVA 51 gpm

**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: *Michael Carey*  
 Date: 12/8/14

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary Driven  
 Cable tool Auger Other

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B



**Water Well Record  
Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**

Name: **Burnette's Service Station**  
 Address: (last) **11577 N. Jacob Smart Blvd** (first)  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:**

**MWA #UMW-25658; UST Permit #05289**

**8. USE:**

<input type="checkbox"/> Residential	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Process
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Air Conditioning	<input type="checkbox"/> Emergency
<input checked="" type="checkbox"/> Test Well	<input type="checkbox"/> Monitor Well	<input type="checkbox"/> Replacement

**2. LOCATION OF WELL:**

COUNTY: **Jasper**

Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**

**32° 24' 24.72" N 80° 58' 34.95" W**

**9. WELL DEPTH (completed)**

**8** ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**10. CASING:**

Threaded	Welded
Diameter: _____	
Type: _____	
_____ in. to _____ ft. depth	
_____ in. to _____ ft. depth	
Height: <b>Below</b>	
Surface: _____ ft.	Weight: <b>lb./ft.</b>
Drive Shoe: _____	

**3. PUBLIC SYSTEM NAME:**

**05289-GW08**

**11. SCREEN:**

Type: _____	Diameter: _____
Slot/Gauge: _____	Length: _____
Set Between: _____	ft. and _____ ft.
	ft. and _____ ft.
Sieve Analysis: <b>Y/N</b>	

**4. ABANDONMENT:**

**Yes**

Grouted Depth: from **0.00** to **8** ft.

**12. STATIC WATER LEVEL**

ft. below land surface after 24 hours.

**13. PUMPING LEVEL**

Below Land Surface  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**

Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement	Bentonite	Bentonite/Cement	Other
Depth: From		ft. to	ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:**

ft. direction

Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:**

Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: **ft.**  
 Capacity: \_\_\_\_\_ **gpm**  
 TYPE:  
 Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:**

Michael Carey  
 Address: 2047 Industrial Blvd  
 Lexington, SC 29072

**CERT NO.: 1920**  
 Level: A B C  D  
 (circle one)

Telephone: 803.429.5001 Fax: \_\_\_\_\_

**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: *Michael Carey*  
 Date: **12/8/14**

**5. REMARKS:**

**PID/DVA 2.7 am**

**6. TYPE:**

Mud Rotary	Jetted	Bored
Dug	Air Rotary	<input checked="" type="radio"/> Driven
Cable tool	Auger	Other

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B



**Water Well Record  
Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**

Name: **Burnette's Service Station**

(last) (first)  
Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland** State: **SC** Zip:

Phone: **N/A**

**7. PERMIT NUMBER:**

**MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential      Public Supply      Process  
Irrigation      Air Conditioning      Emergency  
Test Well      Monitor Well      Replacement

**9. WELL DEPTH (completed)**

**8** ft.      Date Started: **12/8/14**  
Date Completed: **12/8/14**

**10. CASING:**

Threaded      Welded

Diameter: .....  
Type: .....  
Height: Below  
Surface: ..... ft.      Weight: lb./ft.  
Drive Shoe: .....

**2. LOCATION OF WELL:**

**COUNTY: Jasper**

Name: **Burnette's Service Station**  
Address: **11577 N. Jacob Smart Blvd**  
City: **Ridgeland, South Carolina**

**38° 29' 29.74" N 80° 58' 33.36" W**

**3. PUBLIC SYSTEM NAME: 05289-**

**GWO9**

**11. SCREEN:**

Type: .....      Diameter: .....  
Slot/Gauge: .....      Length: .....  
Set Between: ..... ft. and ..... ft.  
Sieve Analysis: Y/N

**4. ABANDONMENT:**

**Yes**

Grouted Depth: from 0.00 to 8 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**12. STATIC WATER LEVEL**

ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface:**

ft. after ..... hrs Pumping      GPM  
Pumping Test: .....  
Yield: .....

**14. WATER QUALITY**

Chemical Analysis: .....      Bacterial Analysis: .....

**15. ARTIFICIAL FILTER (filter pack)**

Installed from: ..... ft. to ..... ft.  
Effective Size: .....      Uniformity Coefficient: .....

**16. WELL GROUDED?**

Neat Cement      Bentonite      Bentonite/Cement      Other  
Depth: From ..... ft. to ..... ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:**

Type: .....      ft.      direction  
Well Disinfected: .....      Type: .....      Amount: .....

**18. PUMP:**

Date installed: .....  
Mfr. Name: .....      Model no.: .....  
H.P.: .....      Volts: .....      Length of pipe: ft.  
Capacity: ..... gpm  
TYPE: Submersible      Jet (shallow)      Turbine  
            Jet (deep)      Reciprocating      Centrifugal

**19. WELL DRILLER:**

Michael Carey      **CERT NO.: 1920**  
Address: 2047 Industrial Blvd      Level: A B C D  
Lexington, SC 29072      (circle one)  
Telephone: 803.429.5001      Fax: .....

**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: Michael Carey  
Date: 12/8/14

**5. REMARKS:**

PID/low 0.6ppm

**6. TYPE:**

Mud Rotary      Jetted      Bored  
Dug      Air Rotary      Driven  
Cable tool      Auger      Other

If D Level Driller, provide supervising driller's name.  
Jason Chiorazzi      1790B  
Joe Smith      1648B





**Water Well Record  
Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
*32°24' 30.09" N 80°58'33.83" W*

**3. PUBLIC SYSTEM NAME:** **05289- Gw10**

**4. ABANDONMENT:** Yes  
 Grouted Depth: from **0.00** to **8** ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**5. REMARKS:**  
*P10/OVA 21ppm*

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary **Driven**  
 Cable tool Auger Other

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential Public Supply Process  
 Irrigation Air Conditioning Emergency  
**Test Well** Monitor Well Replacement

**9. WELL DEPTH (completed)**  
**8** ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**10. CASING:** Threaded Welded  
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Height: Below  
 Surface: \_\_\_\_\_ ft. Weight: lb./ft.  
 Drive Shoe: \_\_\_\_\_

**11. SCREEN:**  
 Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: Y/N

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Michael Carey **CERT NO.: 1920**  
 Address: 2047 Industrial Blvd Level: A B C **D**  
 Lexington, SC 29072 (circle one)  
 Telephone: 803.429.5001 Fax: \_\_\_\_\_

**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: *Michael Carey*  
 Date: **12/8/14**

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B



Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland State: SC Zip:
Phone: N/A

7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well Monitor Well Replacement

9. WELL DEPTH (completed)
8 ft.
Date Started: 12/8/14
Date Completed: 12/8/14

2. LOCATION OF WELL: COUNTY: Jasper
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland, South Carolina

10. CASING: Threaded Welded
Diameter:
Type:
Height: Below
Surface:
Drive Shoe:

3. PUBLIC SYSTEM NAME: 05289- Gwll

11. SCREEN:
Type: Diameter:
Slot/Gauge: Length:
Set Between: ft. and ft.
Sieve Analysis: Y/N

4. ABANDONMENT: Yes
Grouted Depth: from 0.00 to 8 ft.

12. STATIC WATER LEVEL ft. below land surface after 24 hours.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum

13. PUMPING LEVEL Below Land Surface.
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack)
Installed from: ft. to ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite Bentonite/Cement Other
Depth: From ft. to ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey CERT NO.: 1920
Address: 2047 Industrial Blvd Level: A B C D
Lexington, SC 29072 (circle one)
Telephone: 803.429.5001 Fax:

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: 12/8/14

5. REMARKS: PID/0VA 0.7ppm

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

If D Level Driller, provide supervising driller's name.
Jason Chiorazzi 1790B
Joe Smith 1848B



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) (first)  
**11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential Public Supply Process  
 Irrigation Air Conditioning Emergency  
**Test Well** Monitor Well Replacement

**9. WELL DEPTH** (completed)  
**18** ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**

**10. CASING:** Threaded Welded  
 Diameter: .....  
 Type: .....  
 Height: **Below** Surface: ..... ft. Weight: lb./ft.  
 Drive Shoe: .....

**3. PUBLIC SYSTEM NAME:** **05289-GWID**

**11. SCREEN:**  
 Type: ..... Diameter: .....  
 Slot/Gauge: ..... Length: .....  
 Set Between: ..... ft. and ..... ft.  
 Sieve Analysis: Y/N

**4. ABANDONMENT:** **Yes**  
 Grouted Depth: from 0.00 to **18** ft.

**12. STATIC WATER LEVEL** ..... ft. below land surface after 24 hours.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**13. PUMPING LEVEL** Below Land Surface.  
 ..... ft. after ..... hrs Pumping GPM  
 Pumping Test: .....  
 Yield: .....

**14. WATER QUALITY**  
 Chemical Analysis: ..... Bacterial Analysis: .....

**15. ARTIFICIAL FILTER** (filter pack)  
 Installed from: ..... ft. to ..... ft.  
 Effective Size: ..... Uniformity Coefficient: .....

**16. WELL GROUTED?**  
 Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From ..... ft. to ..... ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ..... ft. direction  
 Type: .....  
 Well Disinfected: ..... Type: ..... Amount: .....

**18. PUMP:** Date installed: .....  
 Mfr. Name: ..... Model no.: .....  
 H.P.: ..... Volts: ..... Length of pipe: ft.  
 Capacity: ..... gpm  
 TYPE: Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** **Michael Carey** CERT NO.: **1920**  
 Address: **2047 Industrial Blvd** Level: **A B C D**  
**Lexington, SC 29072** (circle one)  
 Telephone: 803.429.5001 Fax: .....

**5. REMARKS:**  
**Refusal @ 18'** **P/D/OVA 0.9ppm**

**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: *[Signature]*  
 Date: **12/8/14**

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary **Driven**  
 Cable tool Auger Other

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B



**Water Well Record**  
**Bureau of Water**  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) (first)  
**11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: N/A

**2. LOCATION OF WELL: COUNTY:** Jasper  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**

*32° 24' 30.28" N 80° 58' 34.24" W*

**3. PUBLIC SYSTEM NAME:** 05289-  
*GW12*

**4. ABANDONMENT:** Yes  
 Grouted Depth: from 0.00 to 8 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**5. REMARKS:**  
*PIB/DVA 10.5ppm*

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary Driven  
 Cable tool Auger Other

**7. PERMIT NUMBER:** MWA #UMW-25658; UST Permit #05289

**8. USE:**  
 Residential      Public Supply      Process  
 Irrigation        Air Conditioning      Emergency  
Test Well       Monitor Well            Replacement

**9. WELL DEPTH (completed):**  
8 ft. Date Started: 12/8/14  
 Date Completed: 12/8/14

**10. CASING:** Threaded      Welded  
 Diameter: .....  
 Type: .....  
 Height: Below  
 Surface: ..... ft.      Weight: lb./ft.  
 Drive Shoe: .....

**11. SCREEN:**  
 Type: ..... Diameter: .....  
 Slot/Gauge: ..... Length: .....  
 Set Between: ..... ft. and ..... ft.  
 Sieve Analysis: Y/N

**12. STATIC WATER LEVEL** ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.  
 ft. after ..... hrs Pumping      GPM  
 Pumping Test: .....  
 Yield: .....

**14. WATER QUALITY**  
 Chemical Analysis:      Bacterial Analysis:

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: ..... ft. to ..... ft.  
 Effective Size:      Uniformity Coefficient:

**16. WELL GROUDED?**  
 Neat Cement      Bentonite      Bentonite/Cement      Other  
 Depth: From ..... ft. to ..... ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ft. direction  
 Type: .....  
 Well Disinfected:      Type:      Amount:

**18. PUMP:** Date installed: .....  
 Mfr. Name:      Model no.: .....  
 H.P.:      Volts:      Length of pipe: ft.  
 Capacity: gpm  
 TYPE:      Submersible      Jet (shallow)      Turbine  
                  Jet (deep)      Reciprocating      Centrifugal

**19. WELL DRILLER:** Michael Carey      **CERT NO.:** 1920  
 Address: 2047 Industrial Blvd      Level: A B C D  
 Lexington, SC 29072      (circle one)  
 Telephone: 803.429.5001      Fax:

**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: *Michael Carey*  
 Date: 12/8/14

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi      1790B  
 Joe Smith              1648B



**Water Well Record  
Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 (last) (first)  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
<u>Test Well</u>	Monitor Well	Replacement

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
**32° 29' 29.70" N 80° 58' 39.24" W**

**9. WELL DEPTH (completed)**  
**8** ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**10. CASING:** Threaded \_\_\_\_\_ Welded \_\_\_\_\_  
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: **Below**  
 Surface: \_\_\_\_\_ ft. Weight: lb./ft.  
 Drive Shoe: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** **05289-Gwl3**

**4. ABANDONMENT:** Yes  
 Grouted Depth: from 0.00 to **8** ft.

**11. SCREEN:**

Type: _____	Diameter: _____
Slot/Gauge: _____	Length: _____
Set Between: _____	ft. and _____ ft.
	ft. and _____ ft.
Sieve Analysis: Y/N	

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement	Bentonite	Bentonite/Cement	Other
Depth: From _____	ft. to _____	ft. to _____	ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible \_\_\_\_\_ Jet (shallow) \_\_\_\_\_ Turbine \_\_\_\_\_  
 Jet (deep) \_\_\_\_\_ Reciprocating \_\_\_\_\_ Centrifugal \_\_\_\_\_

**19. WELL DRILLER:** **Michael Carey** **CERT NO.: 1920**  
 Address: **2047 Industrial Blvd** **Level: A B C D**  
**Lexington, SC 29072** (circle one)  
 Telephone: 803.429.5001 Fax: \_\_\_\_\_

**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: *Michael Carey*  
 Date: **12/8/14**

**5. REMARKS:** *PIU/DAK open*

**6. TYPE:**

Mud Rotary	Jetted	Bored
Dug	Air Rotary	<u>Driven</u>
Cable tool	Auger	Other

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B



**Water Well Record  
Bureau of Water**  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) (first)  
**11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	Monitor Well	Replacement

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
*32° 29' 29.99" N 80° 58' 34.95" W*

**9. WELL DEPTH (completed)**  
**8** ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**3. PUBLIC SYSTEM NAME:** **05289-GW14**

**10. CASING:** Threaded Welded  
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Height: Below \_\_\_\_\_  
 Surface: \_\_\_\_\_ ft. Weight: lb./ft.  
 Drive Shoe: \_\_\_\_\_

**4. ABANDONMENT:** **Yes**  
 Grouted Depth: from 0.00 to **8** ft.

**11. SCREEN:**  
 Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: Y/N

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.  
**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Nest Cement \_\_\_\_\_ Bentonite \_\_\_\_\_ Bentonite/Cement \_\_\_\_\_ Other \_\_\_\_\_  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible \_\_\_\_\_ Jet (shallow) \_\_\_\_\_ Turbine \_\_\_\_\_  
 Jet (deep) \_\_\_\_\_ Reciprocating \_\_\_\_\_ Centrifugal \_\_\_\_\_

**19. WELL DRILLER:** Michael Carey **CERT NO.: 1920**  
 Address: 2047 Industrial Blvd Level: A B C D  
 Lexington, SC 29072 (circle one)  
 Telephone: 803.429.5001 Fax: \_\_\_\_\_

**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: *Michael Carey*  
 Date: **12/8/14**

**5. REMARKS:**  
*P=D/O/A 0.0gpm*

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary Driven  
 Cable tool Auger Other

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B





Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland State: SC Zip:
Phone: N/A

7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well Monitor Well Replacement

9. WELL DEPTH (completed)
8 ft. Date Started: 12/8/14
Date Completed: 12/8/14

2. LOCATION OF WELL: COUNTY: Jasper
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland, South Carolina

10. CASING: Threaded Welded
Diameter:
Type:
Height: Below
Surface:
Drive Shoe:

3. PUBLIC SYSTEM NAME: 05289-Gw16

11. SCREEN:
Type: Diameter:
Slot/Gauge: Length:
Set Between: ft. and
Sieve Analysis: Y/N

4. ABANDONMENT: Yes
Grouted Depth: from 0.00 to 8 ft.

12. STATIC WATER LEVEL ft. below land surface after 24 hours.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack)
Installed from: ft. to
Effective Size: Uniformity Coefficient:

16. WELL GROUDED?
Neat Cement Bentonite Bentonite/Cement Other
Depth: From ft. to ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Michael Carey CERT NO.: 1920
Address: 2047 Industrial Blvd Level: A B C D
Lexington, SC 29072 (circle one)
Telephone: 803.429.5001 Fax:

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: 12/8/14

5. REMARKS: PID/OVA 0.00ppm

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

If D Level Driller, provide supervising driller's name.
Jason Chiorazzi 1790B
Joe Smith 1648B





## Water Well Record

Bureau of Water  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>Burnette's Service Station</b>  Address: <span style="margin-left: 40px;">(last)</span> <span style="margin-left: 120px;">(first)</span> <b>11577 N. Jacob Smart Blvd</b>  City: <b>Ridgeland</b> State: <b>SC</b> Zip: _____  Phone: <b>N/A</b>		<b>7. PERMIT NUMBER:</b> <b>MWA #UMW-25658; UST Permit #05289</b>  <b>8. USE:</b> Residential      Public Supply      Process Irrigation      Air Conditioning      Emergency <u>Test Well</u> Monitor Well      Replacement																																		
<b>2. LOCATION OF WELL:</b> COUNTY: <b>Jasper</b> Name: <b>Burnette's Service Station</b> Address: <b>11577 N. Jacob Smart Blvd</b> City: <b>Ridgeland, South Carolina</b> <b>32°29'28.3"N 80°58'33.16"W</b>		<b>9. WELL DEPTH</b> (completed) <b>8</b> ft.      Date Started: <b>12/8/14</b> Date Completed: <b>12/8/14</b>																																		
		<b>10. CASING:</b> Threaded      Welded Diameter: _____ Type: _____ Height: <u>Below</u> Surface: _____ ft.      Weight: lb./ft. Drive Shoe: _____																																		
<b>3. PUBLIC SYSTEM NAME:</b> <b>05289-Gw17</b>  <b>4. ABANDONMENT:</b> Yes Grouted Depth: from <b>0.00</b> to <b>8</b> ft. <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 70%;">Formation Description</th><th style="width: 10%;">Thickness of Stratum</th><th style="width: 20%;">Depth to Bottom of Stratum</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																															<b>11. SCREEN:</b> Type: _____      Diameter: _____ Slot/Gauge: _____      Length: _____ Set Between: _____ ft. and _____ ft. Sieve Analysis: Y/N	
		Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																																
<b>5. REMARKS:</b>  <b>PID/OVA 0.8 gpm</b>		<b>12. STATIC WATER LEVEL</b> _____ ft. below land surface after 24 hours. <b>13. PUMPING LEVEL</b> Below Land Surface: _____ ft. after _____ hrs Pumping      GPM Pumping Test: _____ Yield: _____																																		
		<b>14. WATER QUALITY</b> Chemical Analysis: _____      Bacterial Analysis: _____ <b>15. ARTIFICIAL FILTER</b> (filter pack) Installed from: _____ ft. to _____ ft. Effective Size: _____      Uniformity Coefficient: _____																																		
<b>6. TYPE:</b> Mud Rotary      Jetted <u>Bored</u> Dug      Air Rotary <u>Driven</u> Cable tool      Auger      Other		<b>16. WELL GROUDED?</b> Neat Cement      Bentonite      Bentonite/Cement      Other Depth: From _____ ft. to _____ ft.																																		
		<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. direction Type: _____ Well Disinfected: _____      Type: _____      Amount: _____																																		
<b>6. TYPE:</b> Mud Rotary      Jetted      Bored Dug      Air Rotary      Driven Cable tool      Auger      Other		<b>18. PUMP:</b> Date installed: _____ Mfr. Name: _____      Model no.: _____ H.P.: _____      Volts: _____      Length of pipe: _____ ft. Capacity: _____ gpm TYPE:      Submersible      Jet (shallow)      Turbine Jet (deep)      Reciprocating      Centrifugal																																		
		<b>19. WELL DRILLER:</b> <b>Michael Carey</b> CERT NO.: <b>1920</b> Address: <b>2047 Industrial Blvd</b> Level: <b>A B C <u>D</u></b> <b>Lexington, SC 29072</b> (circle one)  Telephone: <b>803.429.5001</b> Fax: _____																																		
<b>6. TYPE:</b> Mud Rotary      Jetted      Bored Dug      Air Rotary      Driven Cable tool      Auger      Other		<b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.  <div style="text-align: right; margin-right: 100px;"> Signed: _____ Date: <b>12/8/14</b></div>																																		
		<small>If D Level Driller, provide supervising driller's name. Jason Chiorazzi      1790B Joe Smith      1648B</small>																																		



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) (first)  
**11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential Public Supply Process  
 Irrigation Air Conditioning Emergency  
 Test Well Monitor Well Replacement

**9. WELL DEPTH (completed):**  
**18** ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**2. LOCATION OF WELL: COUNTY: Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
*30° 24' 28.77" N 80° 58' 33.09" W*

**10. CASING:** Threaded Welded  
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Height: Below  
 Surface: \_\_\_\_\_ ft. Weight: lb./ft.  
 Drive Shoe: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** **05289- Gw17D**

**11. SCREEN:**  
 Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: Y/N

**4. ABANDONMENT: Yes**  
 Grouted Depth: from **0.00** to **18** ft.

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**13. PUMPING LEVEL Below Land Surface:**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Michael Carey **CERT NO.: 1920**  
 Address: 2047 Industrial Blvd Level: A B  D  
 Lexington, SC 29072 (circle one)  
 Telephone: 803.429.5001 Fax: \_\_\_\_\_

**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: *Michael Carey*  
 Date: **12/8/14**

**5. REMARKS:**  
*Revised @ 18' P10/0VA 0.5 ppm*

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary  Driven  
 Cable tool Auger Other

If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B



**Water Well Record**  
**Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_  
 Phone: **N/A**

**2. LOCATION OF WELL: COUNTY: Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
*32° 25' 28.78" N 80° 58' 33.07" W*

**3. PUBLIC SYSTEM NAME: 05289- GWTB**

**4. ABANDONMENT: Yes**  
 Grouted Depth: from 0.00 to 8 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**5. REMARKS:**  
*PIID/OWA 0.1 ppm*

**6. TYPE:** Mud Rotary Jetted  Bored   
 Dug Air Rotary   Driven   
 Cable tool Auger Other

**7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential Irrigation  Public Supply  Process   
 Monitor Well  Air Conditioning  Emergency   
 Test Well  Replacement

**9. WELL DEPTH (completed):**  
8 ft. Date Started: *12/8/14*  
 Date Completed: *12/8/14*

**10. CASING:** Threaded  Welded   
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Height: Below \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.  
 Surface: \_\_\_\_\_ ft. Drive Shoe: \_\_\_\_\_

**11. SCREEN:**  
 Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: Y/N

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface:**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUDED?**  
 Neat Cement  Bentonite  Bentonite/Cement  Other   
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: Submersible  Jet (shallow)  Turbine   
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** Michael Carey **CERT NO.: 1920**  
 Address: 2047 Industrial Blvd Level: A B C  D  
 Lexington, SC 29072 (circle one)  
 Telephone: 803.429.5001 Fax: \_\_\_\_\_

**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: *[Signature]*  
 Date: *12/8/14*  
 If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B



**Water Well Record  
Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) (first)  
**11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**  
**8. USE:**  
 Residential Public Supply Process  
 Irrigation Air Conditioning Emergency  
Test Well Monitor Well Replacement  
**9. WELL DEPTH (completed)**  
**8** ft. Date Started: **12/8/14**  
 Date Completed: **12/8/14**

**2. LOCATION OF WELL: COUNTY: Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
**32°29'29.44"N 80°58'32.89"W**

**10. CASING:** Threaded Welded  
 Diameter: .....  
 Type: .....  
 Height: Below  
 Surface: ..... ft. Weight: lb./ft.  
 Drive Shoe: .....

**3. PUBLIC SYSTEM NAME: 05289-6m19**  
**4. ABANDONMENT: Yes**  
 Grouted Depth: from **0.00** to **8** ft.

**11. SCREEN:**  
 Type: ..... Diameter: .....  
 Slot/Gauge: ..... Length: .....  
 Set Between: ..... ft. and ..... ft.  
 Sieve Analysis: Y/N

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**12. STATIC WATER LEVEL** ft. below land surface after 24 hours.  
**13. PUMPING LEVEL Below Land Surface:**  
 ft. after ..... hrs Pumping **GPM**  
 Pumping Test: .....  
 Yield: .....

**14. WATER QUALITY**  
 Chemical Analysis: ..... Bacterial Analysis: .....  
**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: ..... ft. to ..... ft.  
 Effective Size: ..... Uniformity Coefficient: .....

**16. WELL GROUTED?**  
 Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From ..... ft. to ..... ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ft. direction  
 Type: .....  
 Well Disinfected: ..... Type: ..... Amount: .....

**18. PUMP:** Date installed: .....  
 Mfr. Name: ..... Model no.: .....  
 H.P.: ..... Volts: ..... Length of pipe: ft.  
 Capacity: ..... gpm  
 TYPE: Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Michael Carey **CERT NO.: 1920**  
 Address: 2047 Industrial Blvd Level: A B C  D  
 Lexington, SC 29072 (circle one)  
 Telephone: 803.429.5001 Fax: .....

**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: *Michael Carey*  
 Date: **12/8/14**  
 If D Level Driller, provide supervising driller's name.  
 Jason Chiorazzi 1790B  
 Joe Smith 1648B

**5. REMARKS:**  
**PFO10WA 0.3 ppm**

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary Driven  
 Cable tool Auger Other

**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX E**

**WELL LOGS, WATER WELL RECORDS (DHEC FORM 1903)**

## FIELD BORING LOG (05289-MW02)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 22, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				3.6					▼	Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				2.9					▼	Very dusky red (10R 2/2), wet, clayey fine sand
	11										
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239576.810
Easting = 2007342.085
Top of Casing Elevation = 23.21 (NAVD 88)
Ground Surface Elevation = 23.59 (NAVD 88)
Total Well Depth = 13.88 feet Below Ground Surface
Screen = 0.01-inch slot (3.68 to 13.68 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW02D)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 6.25" ID Auger / 5.5" Roller Cone	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				3.6					▼	Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				2.9					▼	Very dusky red (10R 2/2), wet, clayey fine sand
	11										
	12										
	13										
	14										
	15				1.2						Dusky yellowish brown (10YR 2/2), wet, fine sandy, clayey silt
	16										
	17										
	18										
	19										
	20				0.9						Dusky yellowish brown (10YR 2/2), wet, clayey silt
	21										
	22										
	23										
	24										
	25				0.6						Dusky yellowish brown (10YR 2/2), wet, clayey silt grading to a fine to silty, clayey, fine to medium calcareous sand
	26										
	27										
	28										
	29										
	30				2.7						Drill refusal - weathered limestone
	31										

Boring terminated at 30.0 feet below ground surface.

Legend	
	Filter Sand Pack (23.0 - 30.0 feet BGS)
	Bentonite Seal (21.0 - 23.0 feet BGS)
	Bentonite-Cement Grout (0 - 21.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt

Notes
Boring terminated at 30.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239573.733
Easting = 2007347.432
Top of Casing Elevation = 22.79 (NAVD 88)
Ground Surface Elevation = 23.13 (NAVD 88)
Total Well Depth = 30.00 feet Below Ground Surface
Screen = 0.01-inch slot (24.80 to 29.80 feet Below Ground Surface)

 Sandy Clay

6-inch outer casing installed to 20.0 feet below ground surface



## FIELD BORING LOG (05289-MW03)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Concrete/Asphalt
	2										Blackish red (5R 2/2), dry, fine to medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), slightly moist, medium sand
	5				16.4						Blackish red (5R 2/2), slightly moist to moist, medium sand
	6										Blackish red (5R 2/2), slightly moist to moist, medium sand
	7										Blackish red (5R 2/2), slightly moist to moist, medium sand
	8										Blackish red (5R 2/2), slightly moist to moist, medium sand
	9										Blackish red (5R 2/2), slightly moist to moist, medium sand
	10				13.4						Blackish red (5R 2/2), slightly moist to moist, medium sand
	11										Dusky brown (5YR 2/2), wet, fine clayey sand
	12										Dusky brown (5YR 2/2), wet, fine clayey sand
	13										Dusky brown (5YR 2/2), wet, fine clayey sand
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (2.0 - 14.0 feet BGS)
	Bentonite Seal (1.0 - 2.0 feet BGS)
	Bentonite-Cement Grout (0 - 1.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 6.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239503.303
Easting = 2007359.218
Top of Casing Elevation = 23.49 (NAVD 88)
Ground Surface Elevation = 23.64 (NAVD 88)
Total Well Depth = 13.32 feet Below Ground Surface
Screen = 0.01-inch slot (3.12 to 13.12 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW04)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 22, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Concrete/Asphalt
	2										Blackish red (5R 2/2), dry, fine to medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				0.4					▼	Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				0.1					▼	Dusky brown (5YR 2/2), wet, clayey fine sand
	11										
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (2.0 - 14.0 feet BGS)
	Bentonite Seal (1.0 - 2.0 feet BGS)
	Bentonite-Cement Grout (0 - 1.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239437.381
Easting = 2007381.315
Top of Casing Elevation = 22.93 (NAVD 88)
Ground Surface Elevation = 23.26 (NAVD 88)
Total Well Depth = 13.79 feet Below Ground Surface
Screen = 0.01-inch slot (3.59 to 13.59 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW05)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), slightly moist, medium sand
	5				0.0						Blackish red (5R 2/2), slightly moist to moist, medium sand
	6									▼	
	7										
	8										
	9										
	10				0.0					▼	
	11										Very dusky red (10R 2/2), wet, clayey fine sand
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 6.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239474.941
Easting = 2007404.638
Top of Casing Elevation = 22.14 (NAVD 88)
Ground Surface Elevation = 22.50 (NAVD 88)
Total Well Depth = 13.86 feet Below Ground Surface
Screen = 0.01-inch slot (3.66 to 13.66 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW06)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Concrete/Asphalt
	2										Blackish red (5R 2/2), dry, fine to medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				164					▼	Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10									▼	Dusky brown (5YR 2/2), wet, silty, clayey fine sand
	11				67						
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (2.0 - 14.0 feet BGS)
	Bentonite Seal (1.0 - 2.0 feet BGS)
	Bentonite-Cement Grout (0 - 1.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239474.586
Easting = 2007342.757
Top of Casing Elevation = 23.73 (NAVD 88)
Ground Surface Elevation = 24.14 (NAVD 88)
Total Well Depth = 13.49 feet Below Ground Surface
Screen = 0.01-inch slot (3.29 to 13.29 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW07)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, fine to medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				0.0						Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				0.0						
	11										Dusky brown (5YR 2/2), wet, clayey fine to medium sand
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239455.078
Easting = 2007272.267
Top of Casing Elevation = 23.94 (NAVD 88)
Ground Surface Elevation = 24.32 (NAVD 88)
Total Well Depth = 13.95 feet Below Ground Surface
Screen = 0.01-inch slot (3.75 to 13.75 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW07D)





<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 6.25" ID Auger / 5.5" Roller Cone	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry Slightly Moist Moist Wet Groundwater	Soil Description
	1						Grass/Organic Topsoil
	2						Blackish red (5R 2/2), dry, fine to medium sand
	3						Blackish red (5R 2/2), slightly moist, medium sand
	4						Blackish red (5R 2/2), slightly moist, medium sand
	5				0.0		Blackish red (5R 2/2), moist, medium sand
	6						Blackish red (5R 2/2), moist, medium sand
	7						Blackish red (5R 2/2), moist, medium sand
	8						Blackish red (5R 2/2), moist, medium sand
	9						Blackish red (5R 2/2), moist, medium sand
	10				0.0		Blackish red (5R 2/2), moist, medium sand
	11						Dusky brown (5YR 2/2), wet, clayey fine to medium sand
	12						Dusky brown (5YR 2/2), wet, clayey fine to medium sand
	13						Dusky brown (5YR 2/2), wet, clayey fine to medium sand
	14						Dusky brown (5YR 2/2), wet, clayey fine to medium sand
	15				0.5		Light olive gray (5Y 5/2), wet, silty clay
	16						Light olive gray (5Y 5/2), wet, silty clay
	17						Light olive gray (5Y 5/2), wet, silty clay
	18						Light olive gray (5Y 5/2), wet, silty clay
	19						Light olive gray (5Y 5/2), wet, silty clay
	20				0.1		Light olive gray (5Y 5/2), wet, silty clay
	21						Light olive gray (5Y 5/2), wet, silty clay
	22						Light olive gray (5Y 5/2), wet, silty clay
	23						Light olive gray (5Y 5/2), wet, silty clay
	24						Light olive gray (5Y 5/2), wet, silty clay
	25				0.1		Dusky yellowish brown (10YR 2/2) and dusky brown (5YR 3/2), wet, silty, clayey, fine to medium calcareous sand
	26						Dusky yellowish brown (10YR 2/2) and dusky brown (5YR 3/2), wet, silty, clayey, fine to medium calcareous sand
	27						Dusky yellowish brown (10YR 2/2) and dusky brown (5YR 3/2), wet, silty, clayey, fine to medium calcareous sand
	28						Dusky yellowish brown (10YR 2/2) and dusky brown (5YR 3/2), wet, silty, clayey, fine to medium calcareous sand
	29						Dusky yellowish brown (10YR 2/2) and dusky brown (5YR 3/2), wet, silty, clayey, fine to medium calcareous sand
	30				0.6		Dusky yellowish brown (10YR 2/2) and dusky brown (5YR 3/2), wet, silty, clayey, fine to medium calcareous sand
	31						Dusky yellowish brown (10YR 2/2) and dusky brown (5YR 3/2), wet, silty, clayey, fine to medium calcareous sand
	32						Drill refusal - weathered limestone
							Boring terminated at 32.0 feet below ground surface.

Legend	
	Filter Sand Pack (25.0 - 32.0 feet BGS)
	Bentonite Seal (23.0 - 25.0 feet BGS)
	Bentonite-Cement Grout (0 - 23.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt

Notes
<p>Boring terminated at 32.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 6.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.</p> <p>Northing = 239452.167                      Easting = 2007275.683                      Top of Casing Elevation = 23.96 (NAVD 88)                      Ground Surface Elevation = 24.34 (NAVD 88)</p> <p>Total Well Depth = 32.49 feet Below Ground Surface</p>

 Sandy Silt  
 Sandy Clay

Screen = 0.01-inch slot (27.29 to 32.29 feet Below Ground Surface)  
6-inch outer casing installed to 25.0 feet below ground surface

## FIELD BORING LOG (05289-MW08)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 22, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Concrete/Asphalt
	2										Blackish red (5R 2/2), dry, fine to medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), slightly moist to moist, medium sand
	5				0.4						Blackish red (5R 2/2), slightly moist to moist, medium sand
	6										Blackish red (5R 2/2), slightly moist to moist, medium sand
	7										Blackish red (5R 2/2), slightly moist to moist, medium sand
	8										Blackish red (5R 2/2), slightly moist to moist, medium sand
	9										Blackish red (5R 2/2), slightly moist to moist, medium sand
	10										Blackish red (5R 2/2), slightly moist to moist, medium sand
	11				0.6						Dusky brown (5YR 2/2), wet, clayey fine sand
	12										Dusky brown (5YR 2/2), wet, clayey fine sand
	13										Dusky brown (5YR 2/2), wet, clayey fine sand
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (2.0 - 14.0 feet BGS)
	Bentonite Seal (1.0 - 2.0 feet BGS)
	Bentonite-Cement Grout (0 - 1.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 6.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239505.236
Easting = 2007300.331
Top of Casing Elevation = 23.76 (NAVD 88)
Ground Surface Elevation = 24.00 (NAVD 88)
Total Well Depth = 13.65 feet Below Ground Surface
Screen = 0.01-inch slot (3.45 to 13.45 feet Below Ground Surface)



## FIELD BORING LOG (05289-MW09)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 22, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Concrete/Asphalt
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				0.0					▼	Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				0.0					▼	Very dusky red (10R 2/2), wet, clayey, fine to medium sand
	11										
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (2.0 - 140 feet BGS)
	Bentonite Seal (1.0 - 2.0 feet BGS)
	Bentonite-Cement Grout (0 - 1.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239522.823
Easting = 2007399.046
Top of Casing Elevation = 22.30 (NAVD 88)
Ground Surface Elevation = 22.64 (NAVD 88)
Total Well Depth = 13.96 feet Below Ground Surface
Screen = 0.01-inch slot (3.76 to 13.76 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW10)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				0.0						Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				0.0						
	11										Very dusky red (10R 2/2), wet, clayey fine sand
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 13.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239612.071
Easting = 2007406.596
Top of Casing Elevation = 21.07 (NAVD 88)
Ground Surface Elevation = 21.39 (NAVD 88)
Total Well Depth = 13.62 feet Below Ground Surface
Screen = 0.01-inch slot (3.42 to 13.42 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW11)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										
	4									▼	Blackish red (5R 2/2), slightly moist, medium sand
	5				0.0						
	6										Blackish red (5R 2/2), moist, medium sand
	7										
	8										
	9										
	10				0.0					▼	
	11										Very dusky red (10R 2/2), wet, clayey fine sand
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
▼	Water Level at Time of Boring
▼	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 4.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239551.195
Easting = 2007426.575
Top of Casing Elevation = 21.41 (NAVD 88)
Ground Surface Elevation = 21.75 (NAVD 88)
Total Well Depth = 13.85 feet Below Ground Surface
Screen = 0.01-inch slot (3.65 to 13.65 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW13)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				0.0					▼	Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10									▼	Blackish red (5R 2/2), moist, medium sand
	11										Dusky brown (5YR 2/2), wet, clayey fine sand
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239369.461
Easting = 2007384.302
Top of Casing Elevation = 21.96 (NAVD 88)
Ground Surface Elevation = 22.29 (NAVD 88)
Total Well Depth = 13.82 feet Below Ground Surface
Screen = 0.01-inch slot (3.62 to 13.62 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW14)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 27, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				0.0					▼	Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				0.0					▼	Dusky brown (5YR 2/2), wet, clayey fine sand
	11										
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239319.248
Easting = 2007256.286
Top of Casing Elevation = 24.40 (NAVD 88)
Ground Surface Elevation = 25.01 (NAVD 88)
Total Well Depth = 13.92 feet Below Ground Surface
Screen = 0.01-inch slot (3.72 to 13.72 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW14D)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 6.25" ID Auger / 5.5" Roller Cone	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 27, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, medium sand
	3										Blackish red (5R 2/2), slightly moist, medium sand
	4										Blackish red (5R 2/2), moist, medium sand
	5				0.0						Blackish red (5R 2/2), moist, medium sand
	6										
	7										
	8										
	9										
	10				0.0						
	11										Dusky brown (5YR 2/2), wet, clayey fine sand
	12										
	13										
	14										
	15				0.6						
	16										Dusky yellowish brown (10Y 2/2), wet, clayey silt
	17										
	18										
	19										
	20				0.8						
	21										Light olive gray (5Y 5/2), wet, clayey silt grading to a dusky yellowish brown
	22										(10YR 2/2), wet, silty, clayey, fine to medium calcareous sand
	23										
	24										Drill refusal - weathered limestone
Boring terminated at 24.0 feet below ground surface.											

Legend	
	Filter Sand Pack (17.0 - 24.0 feet BGS)
	Bentonite Seal (15.0 - 17.0 feet BGS)
	Bentonite-Cement Grout (0 - 15.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 24.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 8.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239313.648
Easting = 2007256.492
Top of Casing Elevation = 24.55 (NAVD 88)
Ground Surface Elevation = 24.87 (NAVD 88)
Total Well Depth = 23.77 feet Below Ground Surface
Screen = 0.01-inch slot (18.57 to 23.57 feet Below Ground Surface)
6-inch outer casing installed to 18.0 feet below ground surface

## FIELD BORING LOG (05289-MW15)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> Geoprobe 6600
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 23, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PPM	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1		▲								Grass/Organic Topsoil
	2										Dark yellowish brown (10YR 4/2), dry, clayey silt
	3										Dark yellowish brown (10YR 4/2), slightly moist, clayey silt
	4									▼	Dark yellowish brown (10YR 4/2), moist, clayey silt
	5				0.0						Dark yellowish brown (10YR 4/2), moist, clayey silt
	6										
	7										
	8										
	9										
	10				0.0					▼	Grayish orange (10YR 7/4), wet, clayey silt
	11										
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 4.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239641.711
Easting = 2007277.460
Top of Casing Elevation = 20.33 (NAVD 88)
Ground Surface Elevation = 20.76 (NAVD 88)
Total Well Depth = 13.84 feet Below Ground Surface
Screen = 0.01-inch slot (3.64 to 13.64 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW16)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> Geoprobe 6600
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 23, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Dark yellowish brown (10YR 4/2), dry, clayey silt
	3										Dark yellowish brown (10YR 4/2), slightly moist, clayey silt
	4										Dark yellowish brown (10YR 4/2), slightly moist to moist, clayey silt
	5				0.0						Dark yellowish brown (10YR 4/2), slightly moist to moist, clayey silt
	6										
	7										
	8										
	9										
	10				0.0						Grayish orange (10YR 7/4), wet, clayey silt
	11										
	12										Light olive gray (5Y 5/2), wet, clayey fine sand
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 6.0 feet below ground surface after 24 hours. 4-inch by 4-inch standup steel cover well completion in a 2-foot by 2-foot concrete pad.
Northing = 239573.893
Easting = 2007243.553
Top of Casing Elevation = 24.35 (NAVD 88)
Ground Surface Elevation = 20.95 (NAVD 88)
Total Well Depth = 12.05 feet Below Ground Surface
Screen = 0.01-inch slot (1.85 to 11.85 feet Below Ground Surface)



## FIELD BORING LOG (05289-MW17)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, clayey fine sand
	3										Blackish red (5R 2/2), slightly moist, clayey fine sand
	4										Blackish red (5R 2/2), moist, clayey fine sand
	5				0.0					▼	Blackish red (5R 2/2), moist, clayey fine sand
	6										
	7										
	8										
	9										
	10				0.0					▼	Dusky yellowish brown (10YR 2/2), wet, clayey fine sand
	11										
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239359.933
Easting = 2007483.127
Top of Casing Elevation = 22.17 (NAVD 88)
Ground Surface Elevation = 22.48 (NAVD 88)
Total Well Depth = 13.91 feet Below Ground Surface
Screen = 0.01-inch slot (3.71 to 13.71 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW17D)




<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 6.25" ID Auger / 5.5" Roller Cone	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, clayey fine sand
	3										Blackish red (5R 2/2), slightly moist, clayey fine sand
	4										Blackish red (5R 2/2), moist, clayey fine sand
	5				0.0						Blackish red (5R 2/2), moist, clayey fine sand
	6										
	7										
	8									▼	
	9										
	10				0.0					▼	Dusky yellowish brown (10YR 2/2), wet, clayey fine sand
	11										
	12										
	13										
	14				0.0						
	15										
	16										
	17										
	18										
	19										
	20				0.0						Light olive gray (5Y 5/2), wet, clayey silt
	21										
	22										
	23										
	24										
	25				0.1						Light olive gray (5Y 5/2), wet, clayey silt grading to a dusky yellowish brown (10YR 2/2), wet, silty, clayey, fine to medium calcareous sand
	26										
	27										
	28										
	29										
	30				0.2						Drill refusal - weathered limestone
Boring terminated at 30.0 feet below ground surface.											

Legend	
	Filter Sand Pack (23.0 - 30.0 feet BGS)
	Bentonite Seal (21.0 - 23.0 feet BGS)
	Bentonite-Cement Grout (0 - 21.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt

Notes
Boring terminated at 30.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 8.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239356.326
Easting = 2007482.518
Top of Casing Elevation = 22.28 (NAVD 88)
Ground Surface Elevation = 22.42 (NAVD 88)
Total Well Depth = 30.51 feet Below Ground Surface
Screen = 0.01-inch slot (25.31 to 30.31 feet Below Ground Surface)

 Sandy Clay

6-inch outer casing installed to 20.0 feet below ground surface

## FIELD BORING LOG (05289-MW18)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> Geoprobe 6600
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 23, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Dark yellowish brown (10YR 4/2), dry, clayey silt
	3										Dark yellowish brown (10YR 4/2), slightly moist, clayey silt
	4										Dark yellowish brown (10YR 4/2), slightly moist, clayey silt
	5				0.0						Dark yellowish brown (10YR 4/2), slightly moist to moist, clayey silt
	6										
	7										
	8										
	9										
	10				0.0						Grayish orange (10YR 7/4), wet, clayey silt
	11										
	12										Light olive gray (5Y 5/2), wet, clayey fine sand
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (2.0 - 14.0 feet BGS)
	Bentonite Seal (1.0 - 2.0 feet BGS)
	Bentonite-Cement Grout (0 - 1.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 7.0 feet below ground surface after 24 hours. 4-inch by 4-inch standup steel cover well completion in a 2-foot by 2-foot concrete pad.
Northing = 239528.014
Easting = 2007213.637
Top of Casing Elevation = 24.44 (NAVD 88)
Ground Surface Elevation = 21.49 (NAVD 88)
Total Well Depth = 12.58 feet Below Ground Surface
Screen = 0.01-inch slot (2.38 to 12.38 feet Below Ground Surface)

## FIELD BORING LOG (05289-MW19)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, clayey fine sand
	3										Blackish red (5R 2/2), slightly moist, clayey fine sand
	4										Blackish red (5R 2/2), moist, clayey fine sand
	5				0.0					▼	Blackish red (5R 2/2), moist, clayey fine sand
	6										
	7										
	8										
	9										
	10									▼	Blackish red (5R 2/2), moist, clayey fine sand
	11										Dusky yellowish brown (10YR 2/2), wet, clayey silt
	12										
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (1.0 - 14.0 feet BGS)
	Bentonite Seal (0.5 - 1.0 feet BGS)
	Bentonite-Cement Grout (0 - 0.5 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 5.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239480.180
Easting = 2007510.553
Top of Casing Elevation = 22.14 (NAVD 88)
Ground Surface Elevation = 22.38 (NAVD 88)
Total Well Depth = 14.00 feet Below Ground Surface
Screen = 0.01-inch slot (3.80 to 13.80 feet Below Ground Surface)

# FIELD BORING LOG (05289-MW19D)





<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 6.25" ID Auger / 5.5" Roller Cone	<b>Drill Rig:</b> CME 75
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 26, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Blackish red (5R 2/2), dry, clayey fine sand
	3										Blackish red (5R 2/2), slightly moist, clayey fine sand
	4										Blackish red (5R 2/2), slightly moist, clayey fine sand
	5				0.0						Blackish red (5R 2/2), moist, clayey fine sand
	6										Blackish red (5R 2/2), moist, clayey fine sand
	7										
	8										
	9										
	10				0.0						Dusky yellowish brown (10YR 2/2), wet, clayey silt
	11										
	12										
	13										
	14										
	15				0.3						
	16										
	17										
	18										
	19										
	20				0.4						Light olive gray (5Y 5/2), wet, clayey silt grading to a dusky yellowish brown (10YR 2/2), wet, silty, clayey, fine to medium calcareous sand
	21										
	22										
	23										
	24										
	25				0.2						
	26										
	27										
	28										
	29										
	30				0.5						
	31										
	32										Drill refusal - weathered limestone
Boring terminated at 32.0 feet below ground surface.											

Legend	
	Filter Sand Pack (26.0 - 31.0 feet BGS)
	Bentonite Seal (22.0 - 24.0 feet BGS)
	Bentonite-Cement Grout (0 - 22.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt

Notes
<p>Boring terminated at 32.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 6.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.</p> <p>Northing = 239477.820                  Easting = 2007510.370                  Top of Casing Elevation = 22.18 (NAVD 88)                  Ground Surface Elevation = 22.41 (NAVD 88)</p> <p>Total Well Depth = 32.14 feet Below Ground Surface</p>

 Sandy Silt  
 Sandy Clay

Screen = 0.01-inch slot (26.94 to 31.94 feet Below Ground Surface)  
6-inch outer casing installed to 20.0 feet below ground surface

## FIELD BORING LOG (05289-MW20)



<b>Job Name:</b> Burnette's Service Center	<b>Job Number:</b> J13-080-A
<b>Site Address:</b> Ridgeland, Jasper County, South Carolina	
<b>Drill Method:</b> 4.25" ID Auger	<b>Drill Rig:</b> Geoprobe 6600
<b>Driller Name:</b> J. Smith / L. Large	<b>Company:</b> Smith Drilling Services
<b>Installation Date:</b> January 23, 2015	<b>Logged By:</b> Trever Slack

Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1										Grass/Organic Topsoil
	2										Dark yellowish brown (10YR 4/2), dry, clayey silt
	3										
	4									▼	Dark yellowish brown (10YR 4/2), slightly moist to moist, clayey silt
	5				0.0						Dark yellowish brown (10YR 4/2), moist, clayey silt
	6										
	7										
	8										
	9										
	10				0.0					▼	Grayish orange (10YR 7/4), wet, clayey silt
	11										
	12										Light olive gray (5Y 5/2), wet, clayey fine sand
	13										
Boring terminated at 14.0 feet below ground surface.											

Legend	
	Filter Sand Pack (2.0 - 14.0 feet BGS)
	Bentonite Seal (1.0 - 2.0 feet BGS)
	Bentonite-Cement Grout (0 - 1.0 feet BGS)
	Water Level at Time of Boring
	24-Hour Water Level
	Sand
	Clayey Sand
	Silty Sand
	Clayey Silt
	Sandy Silt
	Sandy Clay

Notes
Boring terminated at 14.0 feet below ground surface. Groundwater encountered at 10.0 feet below ground surface at time of boring and 4.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.
Northing = 239471.733
Easting = 2007195.962
Top of Casing Elevation = 21.94 (NAVD 88)
Ground Surface Elevation = 22.16 (NAVD 88)
Total Well Depth = 13.37 feet Below Ground Surface
Screen = 0.01-inch slot (11.74 to 21.74 feet Below Ground Surface)



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### Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) (first)  
**11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
**339576.810 2007342.085**

**8. USE:**  
 Residential \_\_\_\_\_ Public Supply \_\_\_\_\_ Process \_\_\_\_\_  
 Irrigation \_\_\_\_\_ Air Conditioning \_\_\_\_\_ Emergency \_\_\_\_\_  
 Test Well \_\_\_\_\_ **Monitor Well** \_\_\_\_\_ Replacement \_\_\_\_\_

**9. WELL DEPTH (completed)**  
**13.88** ft. Date Started: **11/22/15**  
 Date Completed: **11/22/15**

**3. PUBLIC SYSTEM NAME:** **05289-Mw02**

**10. CASING:** **Threaded** Welded \_\_\_\_\_  
 Diameter: **2"**  
 Type: **PVC**  
 Height: **2** in. to **3.68** ft. depth  
 Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.  
 Drive Shoe: \_\_\_\_\_  
*Tot edw 23.21*

**4. ABANDONMENT:**  
 Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

**11. SCREEN:**  
 Type: **PVC** Diameter: **2"**  
 Slot/Gauge: **0.010"** Length: **10'**  
 Set Between: **3.68** ft. and **13.68** ft.  
 Sieve Analysis: **Y/N**

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

**12. STATIC WATER LEVEL** **5** ft. below land surface after 24 hours.  
**13. PUMPING LEVEL** Below Land Surface.  
 Pumping Test: \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping GPM \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)** **Sand**  
 Installed from: **1** ft. to **12.5** ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement \_\_\_\_\_ Bentonite **Bentonite/Cement** Other \_\_\_\_\_  
 Depth: From **0.0** ft. to **0.5** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible \_\_\_\_\_ Jet (shallow) \_\_\_\_\_ Turbine \_\_\_\_\_  
 Jet (deep) \_\_\_\_\_ Reciprocating \_\_\_\_\_ Centrifugal \_\_\_\_\_

**19. WELL DRILLER:** **Lawrence Large** **CERT NO.: 2006**  
 Address: **Smith Drilling Services** Level: **A B C D**  
**2443 High Meadows Court** (circle one)  
**Conyers, Georgia 30094**  
 Telephone: **678-201-9849** Fax: \_\_\_\_\_

**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.

**5. REMARKS:**  
**Bentonite Seal 0.5 - 1.0**

Signed: \_\_\_\_\_  
 Date: **11/30/15**  
 If D Level Driller, provide supervising driller's name.  
 Joe Smith 1648B

**6. TYPE:** Mud Rotary \_\_\_\_\_ Jetted \_\_\_\_\_ Bored \_\_\_\_\_  
 Dug \_\_\_\_\_ Air Rotary \_\_\_\_\_ Driven \_\_\_\_\_  
 Cable tool \_\_\_\_\_ Auger \_\_\_\_\_ Other \_\_\_\_\_



**Water Well Record  
Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 (last) (first)  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_  
 Phone: **N/A**

**2. LOCATION OF WELL: COUNTY: Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
**239673.733 2007347.432**

**3. PUBLIC SYSTEM NAME: 05289- MW02D**

**4. ABANDONMENT:**

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

**5. REMARKS:**  
**Bentonite Seal 21-23**

**6. TYPE:**

Mud Rotary	Jetted	Bored
Dug	Air Rotary	Driven
Cable tool	Auger	Other

**7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<b>Monitor Well</b>	Replacement

**9. WELL DEPTH (completed)**  
**30.00** ft. Date Started: **1/24/15**  
 Date Completed: **1/26/15**

**10. CASING:** **Threaded** Welded

Diameter: **2"**  
 Type: **PVC**  
 Height: **2** in. to **24.80** ft. depth  
**6** in. to **20** ft. depth  
 Height: Below  
 Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.  
 Drive Shoe: \_\_\_\_\_

*TUC  
dov  
22.79*

**11. SCREEN:**

Type: **PVC** Diameter: **2"**  
 Slot/Gauge: **0.010"** Length: **5'**  
 Set Between: **24.80** ft. and **29.80** ft.  
 Sieve Analysis: **Y/N**

**12. STATIC WATER LEVEL** **6** ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface.**

ft. after \_\_\_\_\_ hrs Pumping GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack) Sand**

Installed from: **23** ft. to **30** ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement Bentonite **Bentonite/Cement** Other  
 Depth: From **0.0** ft. to **21** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction

Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:**

Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Lawrence Large **CERT NO.: 2006**  
 Address: **Smith Drilling Services** Level: A B C **D**  
 2443 High Meadows Court (circle one)  
 Conyers, Georgia 30094  
 Telephone: 678-201-9849 Fax: \_\_\_\_\_

**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: **1/30/15**  
 If D Level Driller, provide supervising driller's name.  
 Joe Smith 1648B



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) **11577 N. Jacob Smart Blvd** (first)  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**  
**8. USE:**  
 Residential Public Supply Process  
 Irrigation Air Conditioning Emergency  
 Test Well **Monitor Well** Replacement

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**

**9. WELL DEPTH (completed)**  
**13.37** ft. Date Started: **1/24/15**  
 Date Completed: **1/26/15**

**3. PUBLIC SYSTEM NAME:** **05289-MW03**

**10. CASING:** **Threaded** (circled) Welded  
 Diameter: **2"**  
 Type: **PVC**  
*To c elev 23.49*  
 in. to **3.12** ft. depth  
 in. to \_\_\_\_\_ ft. depth  
 Height: **Below**  
 Surface: \_\_\_\_\_ ft. Weight: **lb./ft.**  
 Drive Shoe: \_\_\_\_\_

**4. ABANDONMENT:**  
 Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

**11. SCREEN:** Type: **PVC** Diameter: **2"**  
 Slot/Gauge: **0.010"** Length: **10**  
 Set Between: **3.12** ft. and **13.12** ft.  
 Sieve Analysis: **Y/N**

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**SEE BORING LOGS**

**12. STATIC WATER LEVEL:** **5** ft. below land surface after 24 hours.  
**13. PUMPING LEVEL:** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY:** Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack):** **Sand**  
 Installed from: **2** ft. to **13** ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?** Neat Cement \_\_\_\_\_ Bentonite \_\_\_\_\_ **Bentonite/Cement** (circled) Other \_\_\_\_\_  
 Depth: From **0.0** ft. to **1** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: Submersible \_\_\_\_\_ Jet (shallow) \_\_\_\_\_ Turbine \_\_\_\_\_  
 Jet (deep) \_\_\_\_\_ Reciprocating \_\_\_\_\_ Centrifugal \_\_\_\_\_

**19. WELL DRILLER:** Lawrence Large **CERT NO.: 2006**  
 Address: **Smith Drilling Services** Level: **A B C D** (circle one)  
**2443 High Meadows Court**  
**Conyers, Georgia 30094**  
 Telephone: 678-201-9849 Fax: \_\_\_\_\_

**5. REMARKS:** **Bentonite Seal 1-2**

**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: *[Signature]*  
 Date: **1/30/15**  
 If D Level Driller, provide supervising driller's name.  
**Joe Smith 1648B**

**6. TYPE:** Mud Rotary \_\_\_\_\_ Jetted \_\_\_\_\_ Bored \_\_\_\_\_  
 Dug \_\_\_\_\_ Air Rotary \_\_\_\_\_ Driven \_\_\_\_\_  
 Cable tool \_\_\_\_\_ Auger \_\_\_\_\_ Other \_\_\_\_\_





**Water Well Record**  
**Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**

Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_  
 Phone: **N/A**

**2. LOCATION OF WELL:**

COUNTY: **Jasper**

Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**

**239474.941 2007404.638**

**3. PUBLIC SYSTEM NAME: 05289-**

**MW05**

**4. ABANDONMENT:**

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**SEE BORING LOGS**

**5. REMARKS:**

**Bentonite Seal 0.5 - 1.0**

**6. TYPE:**

Mud Rotary	Jetted	Bored
Dug	Air Rotary	Driven
Cable tool	Auger	Other

**7. PERMIT NUMBER:**

**MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<b>Monitor Well</b>	Replacement

**9. WELL DEPTH (completed)**

**13.86** ft. Date Started: **11/24/15**  
 Date Completed: **11/26/15**

**10. CASING:**

**Threaded** Welded  
 Diameter: **2"**  
 Type: **PVC**  
**2** in. to **3.66** ft. depth  
 in. to \_\_\_\_\_ ft. depth  
 Height: **Below**  
 Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.  
 Drive Shoe: \_\_\_\_\_

**11. SCREEN:**

Type: **PVC** Diameter: **2"**  
 Slot/Gauge: **0.010"** Length: **10'**  
 Set Between: **3.66** ft. and **13.66** ft.  
 Sieve Analysis: **Y/N**

**12. STATIC WATER LEVEL**

**5** ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface.**

ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**

**Sand**

Installed from: **1** ft. to **12.5** ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement Bentonite **Bentonite/Cement** Other  
 Depth: From **0.0** ft. to **0.5** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:**

ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:**

Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:**

Lawrence Large **CERT NO.: 2006**  
 Address: **Smith Drilling Services** Level: **A B C**   
**2443 High Meadows Court**  
**Conyers, Georgia 30094** (circle one)  
 Telephone: 678-201-9849 Fax: \_\_\_\_\_

**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: **11/30/15**

If D Level Driller, provide supervising driller's name.  
 Joe Smith 1648B





Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland State: SC Zip:
Phone: N/A

7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well Monitor Well Replacement

9. WELL DEPTH (completed)
13.95 ft.
Date Started: 1/24/15
Date Completed: 1/26/15

2. LOCATION OF WELL: COUNTY: Jasper
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland, South Carolina
239455.078 2007272.267

10. CASING: Threaded
Diameter: 2"
Type: PVC
Height: Below
Surface: ft.
Weight: lb./ft.

3. PUBLIC SYSTEM NAME: 05289-MW07

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10'
Set Between: 3.75 ft. and 13.75 ft.

4. ABANDONMENT:
Grouted Depth: from to ft.

12. STATIC WATER LEVEL 5 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
Pumping Test: ft. after hrs Pumping GPM
Yield:

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Includes diagonal text 'SEE BORING LOGS'.

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 1 ft. to 12.5 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite Bentonite/Cement Other
Depth: From 0.0 ft. to 0.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type: Well Disinfected: Type: Amount:

18. PUMP:
Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Lawrence Large CERT NO.: 2006
Address: Smith Drilling Services Level: A B C D
2443 High Meadows Court (circle one)
Conyers, Georgia 30094
Telephone: 678-201-9849 Fax:

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.

5. REMARKS: Bentonite Seal 0.5 - 1.0

Signed: [Signature]
Date: 1/30/15
If D Level Driller, provide supervising driller's name.
Joe Smith 1648B

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other





# Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

### 1. WELL OWNER INFORMATION:

Name: **Burnette's Service Station**

(last) (first)

Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland** State: **SC** Zip:

Phone: **N/A**

### 7. PERMIT NUMBER:

**MWA #UMW-25658; UST Permit #05289**

### 8. USE:

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<b>Monitor Well</b>	Replacement

### 9. WELL DEPTH (completed)

**32.49** ft. Date Started: **1/24/15**

Date Completed: **1/26/15**

### 2. LOCATION OF WELL:

COUNTY: **Jasper**

Name: **Burnette's Service Station**

Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland, South Carolina**

**239452.167 2007275.683**

### 10. CASING:

**Threaded**

Welded

Diameter: **2"**

Type: **PVC**

in. to **27.29** ft. depth

in. to **25** ft. depth

Height: **Below**

Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.

Drive Shoe: \_\_\_\_\_

*Toc elev 23.96*

### 3. PUBLIC SYSTEM NAME: **05289-**

**MW08D**

### 4. ABANDONMENT:

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

### 11. SCREEN:

Type: **PVC** Diameter: **2"**

Slot/Gauge: **0.010"** Length: **5'**

Set Between: **27.29** ft. and **32.29** ft.

Sieve Analysis: **Y/N**

### 12. STATIC WATER LEVEL **7** ft. below land surface after 24 hours.

### 13. PUMPING LEVEL Below Land Surface.

ft. after \_\_\_\_\_ hrs Pumping **GPM**

Pumping Test: \_\_\_\_\_

Yield: \_\_\_\_\_

### 14. WATER QUALITY

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

### 15. ARTIFICIAL FILTER (filter pack)

**Sand**

Installed from: **25** ft. to **32** ft.

Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

### 16. WELL GROUTED?

Neat Cement \_\_\_\_\_ Bentonite **Bentonite/Cement** Other \_\_\_\_\_

Depth: From **0.0** ft. to **23** ft.

### 17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. direction \_\_\_\_\_

Type: \_\_\_\_\_

Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

### 18. PUMP:

Date installed: \_\_\_\_\_

Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_

H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.

Capacity: \_\_\_\_\_ gpm

### TYPE:

Submersible \_\_\_\_\_ Jet (shallow) \_\_\_\_\_ Turbine \_\_\_\_\_

Jet (deep) \_\_\_\_\_ Reciprocating \_\_\_\_\_ Centrifugal \_\_\_\_\_

### 19. WELL DRILLER:

Lawrence Large **CERT NO.: 2006**

Address: **Smith Drilling Services** Level: A B C **D**

2443 High Meadows Court (circle one)

Conyers, Georgia 30094

Telephone: 678-201-9849 Fax: \_\_\_\_\_

### 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: **1/30/15**

### 5. REMARKS:

**Bentonite Seal 23-25**

### 6. TYPE:

Mud Rotary	Jetted	Bored
Dug	Air Rotary	Driven
Cable tool	Auger	Other

If D Level Driller, provide supervising driller's name.

Joe Smith 1648B

**SEE BORING LOGS**



### Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

#### 1. WELL OWNER INFORMATION:

Name: **Burnette's Service Station**

Address: (last) **11577 N. Jacob Smart Blvd** (first)

City: **Ridgeland** State: **SC** Zip:

Phone: **N/A**

#### 2. LOCATION OF WELL:

COUNTY: **Jasper**

Name: **Burnette's Service Station**

Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland, South Carolina**

*239505-236 2007300.331*

3. PUBLIC SYSTEM NAME: **05289-MW08**

#### 4. ABANDONMENT:

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

*SEE BORING LOGS*

#### 5. REMARKS:

Bentonite Seal *1-2*

#### 6. TYPE:

Mud Rotary	Jetted	Bored
Dug	Air Rotary	Driven
Cable tool	Auger	Other

#### 7. PERMIT NUMBER:

**MWA #UMW-25658; UST Permit #05289**

#### 8. USE:

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<u>Monitor Well</u>	Replacement

#### 9. WELL DEPTH (completed)

*13.65* ft.

Date Started: *1/22/15*  
Date Completed: *1/22/15*

#### 10. CASING:

Threaded Welded

Diameter: 2"

Type: PVC

2

in. to 3.45 ft. depth

in. to \_\_\_\_\_ ft. depth

Height: Below

Surface: \_\_\_\_\_ ft.

Weight: \_\_\_\_\_ lb./ft.

Drive Shoe: \_\_\_\_\_

#### 11. SCREEN:

Type: PVC

Diameter: 2"

Slot/Gauge: 0.010"

Length: 10'

Set Between: 3.45

ft. and 13.45 ft.

ft. and \_\_\_\_\_ ft.

Sieve Analysis: Y/N

#### 12. STATIC WATER LEVEL

5 ft. below land surface after 24 hours.

#### 13. PUMPING LEVEL Below Land Surface.

ft. after \_\_\_\_\_ hrs Pumping **GPM**

Pumping Test: \_\_\_\_\_

Yield: \_\_\_\_\_

#### 14. WATER QUALITY

Chemical Analysis: \_\_\_\_\_

Bacterial Analysis: \_\_\_\_\_

#### 15. ARTIFICIAL FILTER (filter pack)

Sand

Installed from: 2

ft. to 13 ft.

Effective Size: \_\_\_\_\_

Uniformity Coefficient: \_\_\_\_\_

#### 16. WELL GROUTED?

Neat Cement \_\_\_\_\_

Bentonite \_\_\_\_\_

Bentonite/Cement

Other \_\_\_\_\_

Depth: From 0.0

ft. to 1 ft.

#### 17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

ft. direction

Type: \_\_\_\_\_

Well Disinfected: \_\_\_\_\_

Type: \_\_\_\_\_

Amount: \_\_\_\_\_

#### 18. PUMP:

Date installed: \_\_\_\_\_

Mfr. Name: \_\_\_\_\_

Model no.: \_\_\_\_\_

H.P.: \_\_\_\_\_

Volts: \_\_\_\_\_

Length of pipe: \_\_\_\_\_ ft.

Capacity: \_\_\_\_\_

gpm

TYPE:

Submersible \_\_\_\_\_

Jet (shallow) \_\_\_\_\_

Turbine \_\_\_\_\_

Jet (deep) \_\_\_\_\_

Reciprocating \_\_\_\_\_

Centrifugal \_\_\_\_\_

#### 19. WELL DRILLER:

Lawrence Large

CERT NO.: 2006

Address: **Smith Drilling Services**

Level: A B C

2443 High Meadows Court

(circle one)

Conyers, Georgia 30094

Telephone: 678-201-9849

Fax: \_\_\_\_\_

#### 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: *[Signature]*

Date: *1/30/15*

If D Level Driller, provide supervising driller's name.

Joe Smith 1648B



## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>Burnette's Service Station</b>  Address: (last) <b>11577 N. Jacob Smart Blvd</b> (first)  City: <b>Ridgeland</b> State: <b>SC</b> Zip:  Phone: <b>N/A</b>	<b>7. PERMIT NUMBER:</b> <b>MWA #UMW-25658; UST Permit #05289</b>  <b>8. USE:</b> Residential      Public Supply      Process Irrigation      Air Conditioning      Emergency Test Well <b>Monitor Well</b> Replacement																																	
<b>2. LOCATION OF WELL:</b> COUNTY: <b>Jasper</b> Name: <b>Burnette's Service Station</b> Address: <b>11577 N. Jacob Smart Blvd</b> City: <b>Ridgeland, South Carolina</b>  <b>239522.823 2007399.046</b>	<b>9. WELL DEPTH (completed)</b> <b>13.96</b> ft. Date Started: <b>1/22/15</b> Date Completed: <b>1/22/15</b>																																	
	<b>10. CASING:</b> <b>Threaded</b> Welded Diameter: <b>2"</b> Type: <b>PVC</b> <b>TWC elev 22.30</b> in. to <b>3.76</b> ft. depth in. to _____ ft. depth Height: Below Surface: _____ ft. Weight: lb./ft. Drive Shoe: _____																																	
<b>3. PUBLIC SYSTEM NAME:</b> <b>05289-MW09</b>	<b>11. SCREEN:</b> Type: <b>PVC</b> Diameter: <b>2"</b> Slot/Gauge: <b>0.010"</b> Length: <b>10'</b> Set Between: <b>3.76</b> ft. and <b>13.76</b> ft. Sieve Analysis: Y/N																																	
<b>4. ABANDONMENT:</b> Grouted Depth: from _____ to _____ ft.	<b>12. STATIC WATER LEVEL</b> <b>4</b> ft. below land surface after 24 hours. <b>13. PUMPING LEVEL</b> Below Land Surface. _____ ft. after _____ hrs Pumping GPM Pumping Test: _____ Yield: _____																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Formation Description</th> <th style="width: 15%;">Thickness of Stratum</th> <th style="width: 15%;">Depth to Bottom of Stratum</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																															<b>14. WATER QUALITY</b> Chemical Analysis: _____ Bacterial Analysis: _____
Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																																
<b>SEE BORING LOGS</b>	<b>15. ARTIFICIAL FILTER (filter pack)</b> <b>Sand</b> Installed from: <b>2</b> ft. to <b>13</b> ft. Effective Size: _____ Uniformity Coefficient: _____																																	
	<b>16. WELL GROUTED?</b> Neat Cement      Bentonite <b>Bentonite/Cement</b> Other Depth: From <b>0.0</b> ft. to _____ ft.																																	
	<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. direction Type: _____ Well Disinfected: _____ Type: _____ Amount: _____																																	
	<b>18. PUMP:</b> Date installed: _____ Mfr. Name: _____ Model no.: _____ H.P.: _____ Volts: _____ Length of pipe: _____ ft. Capacity: _____ gpm TYPE: _____ Submersible      Jet (shallow)      Turbine Jet (deep)      Reciprocating      Centrifugal																																	
	<b>19. WELL DRILLER:</b> Lawrence Large      CERT NO.: <b>2006</b> Address: <b>Smith Drilling Services</b> Level: <b>A B C D</b> (circle one) 2443 High Meadows Court Conyers, Georgia 30094 Telephone: 678-201-9849      Fax: _____																																	
<b>5. REMARKS:</b> <b>Bentonite Seal 1-2</b>	<b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed: _____ Date: <b>1/30/15</b>																																	
<b>6. TYPE:</b> Mud Rotary      Jetted      Bored Dug      Air Rotary      Driven Cable tool      Auger      Other	If D Level Driller, provide supervising driller's name. Joe Smith      1648B																																	



## Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

### 1. WELL OWNER INFORMATION:

Name: **Burnette's Service Station**

(last) (first)  
Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_

Phone: **N/A**

### 2. LOCATION OF WELL:

COUNTY: **Jasper**

Name: **Burnette's Service Station**  
Address: **11577 N. Jacob Smart Blvd**  
City: **Ridgeland, South Carolina**

**239612.071 2007406.596**

### 3. PUBLIC SYSTEM NAME: **05289-**

**MWID**

### 4. ABANDONMENT:

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

### 5. REMARKS:

**Bentonite Seal 0.5-1.0**

### 6. TYPE:

Mud Rotary	Jetted	Bored
Dug	Air Rotary	Driven
Cable tool	Auger	Other

### 7. PERMIT NUMBER:

**MWA #UMW-25658; UST Permit #05289**

### 8. USE:

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<b>Monitor Well</b>	Replacement

### 9. WELL DEPTH (completed)

**13.62** ft.

Date Started: **1/24/15**  
Date Completed: **1/26/15**

### 10. CASING:

**Threaded**

Welded

Diameter: **2"**  
Type: **PVC**  
**2** in. to **3.42** ft. depth  
in. to \_\_\_\_\_ ft. depth  
Height: **Below**  
Surface: \_\_\_\_\_ ft.  
Weight: \_\_\_\_\_ lb./ft.  
Drive Shoe: \_\_\_\_\_

### 11. SCREEN:

Type: **PVC** Diameter: **2"**  
Slot/Gauge: **0.010"** Length: **10**  
Set Between: **3.42** ft. and **13.42** ft.  
ft. and \_\_\_\_\_ ft.  
Sieve Analysis: **Y/N**

### 12. STATIC WATER LEVEL

**4** ft. below land surface after 24 hours.

### 13. PUMPING LEVEL Below Land Surface.

ft. after \_\_\_\_\_ hrs Pumping GPM

Pumping Test: \_\_\_\_\_

Yield: \_\_\_\_\_

### 14. WATER QUALITY

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

### 15. ARTIFICIAL FILTER (filter pack)

**Sand**

Installed from: **1** ft. to **12.5** ft.  
Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

### 16. WELL GROUDED?

Neat Cement \_\_\_\_\_ Bentonite \_\_\_\_\_ **Bentonite/Cement** Other \_\_\_\_\_  
Depth: From **0.0** ft. to **0.5** ft.

### 17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

ft. direction

Type: \_\_\_\_\_

Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

### 18. PUMP:

Date installed: \_\_\_\_\_

Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_

H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.

Capacity: \_\_\_\_\_ gpm

### TYPE:

Submersible	Jet (shallow)	Turbine
Jet (deep)	Reciprocating	Centrifugal

### 19. WELL DRILLER:

Lawrence Large CERT NO.: 2006

Address: **Smith Drilling Services** Level: **A B C D**  
**2443 High Meadows Court** (circle one)  
**Conyers, Georgia 30094**

Telephone: 678-201-9849 Fax: \_\_\_\_\_

### 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: **1/30/15**

If D Level Driller, provide supervising driller's name.

Joe Smith 1648B



## Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) **11577 N. Jacob Smart Blvd** (first)  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**2. LOCATION OF WELL: COUNTY: Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
*234551.195 2007426.575*

**3. PUBLIC SYSTEM NAME: 05289- Mwil**

**4. ABANDONMENT:**  
 Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

**5. REMARKS:**  
**Bentonite Seal 0.5-1**

**6. TYPE:**  
 Mud Rotary      Jetted      Bored  
 Dug                  Air Rotary      Driven  
 Cable tool      Auger      Other

**7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential      Public Supply      Process  
 Irrigation      Air Conditioning      Emergency  
 Test Well      **Monitor Well**      Replacement

**9. WELL DEPTH (completed):**  
**13.85** ft.      Date Started: **11/24/15**  
 Date Completed: **11/26/15**

**10. CASING:** **Threaded**      Welded  
 Diameter: **2"**  
 Type: **PVC**  
*TWC elev 21.41*  
 \_\_\_\_\_ in. to **3.65** ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: **Below**  
 Surface: \_\_\_\_\_ ft.      Weight: **lb./ft.**  
 Drive Shoe: \_\_\_\_\_

**11. SCREEN:**  
 Type: **PVC**      Diameter: **2"**  
 Slot/Gauge: **0.010"**      Length: **10'**  
 Set Between: **3.65** ft. and **13.65** ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: **Y/N**

**12. STATIC WATER LEVEL: 4** ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface:**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping      GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_      Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack): Sand**  
 Installed from: **1** ft. to **12.5** ft.  
 Effective Size: \_\_\_\_\_      Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement      Bentonite      **Bentonite/Cement**      Other  
 Depth: From **0.0** ft. to **0.5** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mr. Name: \_\_\_\_\_      Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_      Volts: \_\_\_\_\_      Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible      Jet (shallow)      Turbine  
 Jet (deep)      Reciprocating      Centrifugal

**19. WELL DRILLER:** Lawrence Large      CERT NO.: **2006**  
 Address: **Smith Drilling Services**      Level: A B C **D**  
 2443 High Meadows Court      (circle one)  
 Conyers, Georgia 30094  
 Telephone: 678-201-9849      Fax: \_\_\_\_\_

**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: **1/30/15**  
 If D Level Driller, provide supervising driller's name.  
 Joe Smith      1648B



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland State: SC Zip:
Phone: N/A

2. LOCATION OF WELL: COUNTY: Jasper
Name: Burnette's Service Station
Address: 11577 N. Jacob Smart Blvd
City: Ridgeland, South Carolina
239369.461 2007384.302

3. PUBLIC SYSTEM NAME: 05289-
Mw13

4. ABANDONMENT:
Grouted Depth: from to ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS: Bentonite Seal 0.5-1.0

6. TYPE: Mud Rotary, Jetted, Bored, Dug, Air Rotary, Driven, Cable tool, Auger, Other

7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289

8. USE: Residential, Public Supply, Process, Irrigation, Air Conditioning, Emergency, Test Well, Monitor Well, Replacement

9. WELL DEPTH (completed) 13.82 ft. Date Started: 1/24/15 Date Completed: 1/26/15

10. CASING: Threaded, Diameter: 2", Type: PVC, Height: Below, Surface: ft., Weight: lb./ft. ToC elev 21.96

11. SCREEN: Type: PVC, Diameter: 2", Slot/Gauge: 0.010", Length: 10, Set Between: 3.62 ft. and 13.62 ft.

12. STATIC WATER LEVEL 4 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface. Pumping Test: ft. after hrs Pumping GPM Yield:

14. WATER QUALITY Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand Installed from: 1 ft. to 12.5 ft. Effective Size: Uniformity Coefficient:

16. WELL GROUTED? Neat Cement, Bentonite, Bentonite/Cement, Other Depth: From 0.0 ft. to 0.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type: Well Disinfected: Type: Amount:

18. PUMP: Date installed: Mfr. Name: Model no.: H.P.: Volts: Length of pipe: ft. Capacity: gpm TYPE: Submersible, Jet (shallow), Turbine, Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Lawrence Large CERT NO.: 2006 Address: Smith Drilling Services Level: A B C D 2443 High Meadows Court (circle one) Conyers, Georgia 30094 Telephone: 678-201-9849 Fax:

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: 1/30/15 If D Level Driller, provide supervising driller's name. Joe Smith 1648B





Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: Burnette's Service Station

Address: 11577 N. Jacob Smart Blvd

City: Ridgeland State: SC Zip:

Phone: N/A

7. PERMIT NUMBER:

MWA #UMW-25658; UST Permit #05289

8. USE:

Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well Monitor Well Replacement

9. WELL DEPTH (completed)

23.77 ft.

Date Started: 1/24/15
Date Completed: 1/27/15

10. CASING:

Threaded

Diameter: 2"
Type: PVC
Height: Below
Surface: ft.
Weight: lb./ft.

Tot elev 24.55

2. LOCATION OF WELL:

COUNTY: Jasper

Name: Burnette's Service Station

Address: 11577 N. Jacob Smart Blvd

City: Ridgeland, South Carolina

239 313-648 2007256-442

3. PUBLIC SYSTEM NAME: 05289-

MW14D

4. ABANDONMENT:

Grouted Depth: from to ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Includes diagonal text 'SEE BORING LOGS'.

11. SCREEN:

Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5'
Set Between: 18.57 ft. and 23.57 ft.

12. STATIC WATER LEVEL 11 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.

ft. after hrs Pumping GPM

Pumping Test:

Yield:

14. WATER QUALITY

Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack)

Sand

Installed from: 17 ft. to 24 ft.

Effective Size: Uniformity Coefficient:

16. WELL GROUTED?

Neat Cement Bentonite Bentonite/Cement Other
Depth: From 0.0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type: Well Disinfected: Type: Amount:

18. PUMP:

Date installed: Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER:

Lawrence Large CERT NO.: 2006
Address: Smith Drilling Services Level: A B C D
2443 High Meadows Court (circle one)
Conyers, Georgia 30094
Telephone: 678-201-9849 Fax:

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:

Signature and date 1/30/15

If D Level Driller, provide supervising driller's name.

Joe Smith 1648B

5. REMARKS:

Bentonite Seal 15-17

6. TYPE:

Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other





**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**

(last) (first)  
 Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_  
 Phone: **N/A**

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**

*239 641-711 2007277.460*

**3. PUBLIC SYSTEM NAME:** **05289-MW15**

**4. ABANDONMENT:**

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

*SEE BORING LOGS*

**5. REMARKS:**  
**Bentonite Seal 0.5-1.0**

**6. TYPE:**

Mud Rotary	Jetted	Bored
Dug	Air Rotary	Driven
Cable tool	Auger	Other

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<u>Monitor Well</u>	Replacement

**9. WELL DEPTH (completed)**  
**13.84** ft.  
 Date Started: **1/22/15**  
 Date Completed: **1/23/15**

**10. CASING:** Threaded Welded  
 Diameter: **2"**  
 Type: **PVC**  
*Tuc elev 20.33*  
 Height: **2** in. to **3.64** ft. depth  
 Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.  
 Drive Shoe: \_\_\_\_\_

**11. SCREEN:**  
 Type: **PVC** Diameter: **2"**  
 Slot/Gauge: **0.010"** Length: **10'**  
 Set Between: **3.64** ft. and **13.64** ft.  
 Sieve Analysis: **Y/N**

**12. STATIC WATER LEVEL** **H** ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)** **Sand**  
 Installed from: **1** ft. to **12** ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From **0.0** ft. to **0.5** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** **Lawrence Large** **CERT NO.: 2006**  
 Address: **Smith Drilling Services** Level: **A B C D**  
**2443 High Meadows Court** (circle one)  
**Conyers, Georgia 30094**  
 Telephone: **678-201-9849** Fax: \_\_\_\_\_

**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: **1/30/15**  
 If D Level Driller, provide supervising driller's name.  
**Joe Smith 1648B**



# Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**

Name: **Burnette's Service Station**

(last) (first)  
Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland** State: **SC** Zip:

Phone: **N/A**

**2. LOCATION OF WELL:**

COUNTY: **Jasper**

Name: **Burnette's Service Station**  
Address: **11577 N. Jacob Smart Blvd**  
City: **Ridgeland, South Carolina**

234573.893 2007243.553

**3. PUBLIC SYSTEM NAME: 05289-**

MW16

**4. ABANDONMENT:**

Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

**5. REMARKS:**

Bentonite Seal 1-2

<b>6. TYPE:</b>	Mud Rotary	Jetted	Bored
	Dug	Air Rotary	Driven
	Cable tool	Auger	Other

**7. PERMIT NUMBER:**

MWA #UMW-25658; UST Permit #05289

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	Monitor Well	Replacement

**9. WELL DEPTH (completed)**

12.05 ft. Date Started: 1/22/15  
Date Completed: 1/23/15

**10. CASING:**

Threaded

Welded

Diameter: 2"  
Type: PVC  
Height: 2 in. to 1.85 ft. depth  
Surface: Below  
Drive Shoe: 24.35 in. to ft. depth  
Weight: lb./ft.

**11. SCREEN:**

Type: PVC Diameter: 2"  
Slot/Gauge: 0.010" Length: 10'  
Set Between: 1.85 ft. and 11.85 ft.  
Sieve Analysis: Y/N

**12. STATIC WATER LEVEL**

7 ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface.**

Pumping Test: ft. after hrs Pumping GPM  
Yield:

**14. WATER QUALITY**

Chemical Analysis: Bacterial Analysis:

**15. ARTIFICIAL FILTER (filter pack)**

Sand

Installed from: 2 ft. to 12.5 ft.  
Effective Size: Uniformity Coefficient:

**16. WELL GROUTED?**

Neat Cement Bentonite Bentonite/Cement Other  
Depth: From 0.0 ft. to 1 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:**

ft. direction

Type:  
Well Disinfected: Type: Amount:

**18. PUMP:**

Date installed:

Mfr. Name: Model no.:  
H.P.: Volts: Length of pipe: ft.  
Capacity: gpm  
TYPE: Submersible Jet (shallow) Turbine  
Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:**

Lawrence Large CERT NO.: 2006  
Address: Smith Drilling Services Level: A B C 2  
2443 High Meadows Court  
Conyers, Georgia 30094 (circle one)  
Telephone: 678-201-9849 Fax:

**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: [Signature]  
Date: 1/30/15

If D Level Driller, provide supervising driller's name.  
Joe Smith 1648B



## Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>Burnette's Service Station</b>  Address: (last) <b>11577 N. Jacob Smart Blvd</b> (first)  City: <b>Ridgeland</b> State: <b>SC</b> Zip:  Phone: <b>N/A</b>	<b>7. PERMIT NUMBER:</b> <b>MWA #UMW-25658; UST Permit #05289</b>  <b>8. USE:</b> Residential      Public Supply      Process Irrigation          Air Conditioning      Emergency Test Well <u>Monitor Well</u> Replacement																																	
<b>2. LOCATION OF WELL:</b> COUNTY: <b>Jasper</b> Name: <b>Burnette's Service Station</b> Address: <b>11577 N. Jacob Smart Blvd</b> City: <b>Ridgeland, South Carolina</b>  <b>239 359 933      200 7483-127</b>	<b>9. WELL DEPTH (completed)</b> <b>13.91</b> ft.      Date Started: <b>1/24/15</b> Date Completed: <b>1/26/15</b>																																	
<b>3. PUBLIC SYSTEM NAME:</b> <b>05289-MW17</b>	<b>10. CASING:</b> <u>Threaded</u> Welded Diameter: <b>2"</b> Type: <b>PVC</b>  <i>To C elev</i> <u>2</u> in. to <b>3.71</b> ft. depth in. to _____ ft. depth Height: <b>Below</b> Surface: _____ ft.      Weight: <b>lb./ft.</b> Drive Shoe: _____																																	
<b>4. ABANDONMENT:</b> Grouted Depth: from _____ to _____ ft.	<b>11. SCREEN:</b> Type: <b>PVC</b> Diameter: <b>2"</b> Slot/Gauge: <b>0.010"</b> Length: <b>10</b> Set Between: <b>3.71</b> ft. and <b>13.71</b> ft. Sieve Analysis: <b>Y/N</b>																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">Formation Description</th> <th style="width: 10%;">Thickness of Stratum</th> <th style="width: 10%;">Depth to Bottom of Stratum</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																															<b>12. STATIC WATER LEVEL</b> <b>5</b> ft. below land surface after 24 hours. <b>13. PUMPING LEVEL</b> Below Land Surface. _____ ft. after _____ hrs Pumping      GPM Pumping Test: _____ Yield: _____
Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																																
<div style="font-size: 2em; transform: rotate(-30deg); opacity: 0.5; position: absolute; top: 50%; left: 50%; pointer-events: none;">SEE BORING LOGS</div>	<b>14. WATER QUALITY</b> Chemical Analysis: _____      Bacterial Analysis: _____																																	
	<b>15. ARTIFICIAL FILTER (filter pack)</b> <b>Sand</b> Installed from: <b>1</b> ft. to <b>12.5</b> ft. Effective Size: _____      Uniformity Coefficient: _____																																	
	<b>16. WELL GROUDED?</b> Neat Cement      Bentonite <u>Bentonite/Cement</u> Other Depth: From <b>0.0</b> ft. to <b>0.5</b> ft.																																	
	<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. direction Type: _____ Well Disinfected: _____ Type: _____ Amount: _____																																	
	<b>18. PUMP:</b> Date installed: _____ Mfr. Name: _____ Model no.: _____ H.P.: _____ Volts: _____ Length of pipe: _____ ft. Capacity: _____ gpm TYPE: _____ Submersible      Jet (shallow)      Turbine Jet (deep)      Reciprocating      Centrifugal																																	
	<b>19. WELL DRILLER:</b> <b>Lawrence Large</b> CERT NO.: <b>2006</b> Address: <b>Smith Drilling Services</b> Level: A B C <u>D</u> <b>2443 High Meadows Court</b> <b>Conyers, Georgia 30094</b> (circle one) Telephone: <b>678-201-9849</b> Fax: _____																																	
	<b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.  Signed: <u>[Signature]</u> Date: <b>1/30/15</b>																																	
<b>5. REMARKS:</b> <b>Bentonite Seal      0.5 - 1.0</b>	If D Level Driller, provide supervising driller's name. <b>Joe Smith      1648B</b>																																	
<b>6. TYPE:</b> Mud Rotary      Jetted      Bored Dug      Air Rotary      Driven Cable tool      Auger      Other																																		



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) **11577 N. Jacob Smart Blvd** (first)  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
**234356.326 2007482518**

**3. PUBLIC SYSTEM NAME:** **05289-MW17D**

**4. ABANDONMENT:**  
 Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

**5. REMARKS:**  
**Bentonite Seal 21-23**

**6. TYPE:** Mud Rotary      Jetted      Bored  
 Dug                                  Air Rotary      Driven  
 Cable tool                      Auger              Other

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential      Public Supply      Process  
 Irrigation          Air Conditioning      Emergency  
 Test Well          **Monitor Well**          Replacement

**9. WELL DEPTH (completed):** **30.51** ft.  
 Date Started: **11/24/15**  
 Date Completed: **11/26/15**

**10. CASING:** **Threaded**      Welded  
 Diameter: **2"**  
 Type: **PVC**  
 Height: **2** in. to **25.31** ft. depth  
               **6** in. to **20** ft. depth  
 Height: Below  
 Surface: \_\_\_\_\_ ft.      Weight: lb./ft.  
 Drive Shoe: \_\_\_\_\_

**11. SCREEN:**  
 Type: **PVC**      Diameter: **2"**  
 Slot/Gauge: **0.010"**      Length: **5'**  
 Set Between: **25.31** ft. and **30.31** ft.  
 Sieve Analysis: **Y/N**

**12. STATIC WATER LEVEL:** **10** ft. below land surface after 24 hours.

**13. PUMPING LEVEL:** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping      GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_      Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack):** **Sand**  
 Installed from: **23** ft. to **30** ft.  
 Effective Size: \_\_\_\_\_      Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement      Bentonite      **Bentonite/Cement**      Other  
 Depth: From **0.0** ft. to **21** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: Submersible      Jet (shallow)      Turbine  
               Jet (deep)      Reciprocating      Centrifugal

**19. WELL DRILLER:** Lawrence Large      CERT NO.: **2006**  
 Address: **Smith Drilling Services**      Level: **A B C**  
                                 **2443 High Meadows Court**      (circle one)  
                                 **Conyers, Georgia 30094**  
 Telephone: **678-201-9849**      Fax: \_\_\_\_\_

**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: **11/30/15**  
 If D Level Driller, provide supervising driller's name.  
 Joe Smith      1648B



# Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) **11577 N. Jacob Smart Blvd** (first)  
 City: **Ridgeland** State: **SC** Zip:  
 Phone: **N/A**

**2. LOCATION OF WELL: COUNTY: Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
**239528.014 2007213.637**

**3. PUBLIC SYSTEM NAME: 05289- MW18**

**4. ABANDONMENT:**  
 Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

**5. REMARKS:**  
**Bentonite Seal 1-2**

**6. TYPE:**  
 Mud Rotary      Jetted      Bored  
 Dug                  Air Rotary      Driven  
 Cable tool          Auger          Other

**7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289**

**8. USE:**  
 Residential      Public Supply      Process  
 Irrigation      Air Conditioning      Emergency  
 Test Well      Monitor Well      Replacement

**9. WELL DEPTH (completed):**  
12.58 ft.      Date Started: 1/22/15  
 Date Completed: 1/23/15

**10. CASING:**  
Threaded      Welded  
 Diameter: 2"  
 Type: PVC  
 Height: Below  
 Surface: \_\_\_\_\_ ft.      Weight: lb./ft.  
 Drive Shoe: \_\_\_\_\_  
*TWC elev 24.44*  
 in. to 2.38 ft. depth  
 in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC      Diameter: 2"  
 Slot/Gauge: 0.010"      Length: 12  
 Set Between: 2.38 ft. and 2.38 ft.  
 Sieve Analysis: Y/N

**12. STATIC WATER LEVEL** 3 ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping      GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_      Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack): Sand**  
 Installed from: 2 ft. to 13 ft.  
 Effective Size: \_\_\_\_\_      Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**  
 Neat Cement      Bentonite      Bentonite/Cement      Other  
 Depth: From 0.0 ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible      Jet (shallow)      Turbine  
 Jet (deep)      Reciprocating      Centrifugal

**19. WELL DRILLER:** Lawrence Large      CERT NO.: 2006  
 Address: Smith Drilling Services      Level: A B C 2  
 2443 High Meadows Court      (circle one)  
 Conyers, Georgia 30094  
 Telephone: 678-201-9849      Fax: \_\_\_\_\_

**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: 1/30/15

If D Level Driller, provide supervising driller's name.  
 Joe Smith      1648B



## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**

Address: (last) **11577 N. Jacob Smart Blvd** (first)

City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_

Phone: **N/A**

**7. PERMIT NUMBER:** **MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<u>Monitor Well</u>	Replacement

**9. WELL DEPTH (completed)**  
**14.00** ft. Date Started: **1/24/15**  
 Date Completed: **1/26/15**

**2. LOCATION OF WELL:** COUNTY: **Jasper**

Name: **Burnette's Service Station**

Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland, South Carolina**

**231480.180 2007510.553**

**10. CASING:** Threaded Welded

Diameter: **2"**

Type: **PVC**

**2** in. to **3.80** ft. depth  
 in. to \_\_\_\_\_ ft. depth

Height: **Below**

Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.

Drive Shoe: \_\_\_\_\_

*TOL elev 22.14*

**3. PUBLIC SYSTEM NAME:** **05289-MW19**

**11. SCREEN:**

Type: **PVC** Diameter: **2"**

Slot/Gauge: **0.010"** Length: **14'**

Set Between: **3.80** ft. and **13.80** ft.  
 ft. and \_\_\_\_\_ ft.

Sieve Analysis: **Y/N**

**4. ABANDONMENT:**

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

**12. STATIC WATER LEVEL** **4** ft. below land surface after 24 hours.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**13. PUMPING LEVEL** Below Land Surface.

ft. after \_\_\_\_\_ hrs Pumping **GPM**

Pumping Test: \_\_\_\_\_

Yield: \_\_\_\_\_

**14. WATER QUALITY**

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)** **Sand**

Installed from: **1** ft. to **12.5** ft.

Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

SEE BORING LOGS

**16. WELL GROUTED?**

Neat Cement Bentonite Bentonite/Cement Other

Depth: From **0.0** ft. to **0.5** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction

Type: \_\_\_\_\_

Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_

Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_

H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.

Capacity: \_\_\_\_\_ gpm

TYPE: \_\_\_\_\_

Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Lawrence Large CERT NO.: **2006**

Address: **Smith Drilling Services** Level: **A B C D**

**2443 High Meadows Court** (circle one)

**Conyers, Georgia 30094**

Telephone: **678-201-9849** Fax: \_\_\_\_\_

**5. REMARKS:**  
**Bentonite Seal 0.5-1.0**

**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: **1/30/15**

**6. TYPE:** Mud Rotary Jetted Bored  
 Dug Air Rotary Driven  
 Cable tool Auger Other

If D Level Driller, provide supervising driller's name.  
**Joe Smith 1648B**



**Water Well Record  
Bureau of Water**

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**

Name: **Burnette's Service Station**

Address: (last) **11577 N. Jacob Smart Blvd** (first)

City: **Ridgeland** State: **SC** Zip:

Phone: **N/A**

**2. LOCATION OF WELL:**

COUNTY: **Jasper**

Name: **Burnette's Service Station**

Address: **11577 N. Jacob Smart Blvd**

City: **Ridgeland, South Carolina**

**239477.820 2007510.370**

**3. PUBLIC SYSTEM NAME: 05289-**

**MW19D**

**4. ABANDONMENT:**

Grouted Depth: from \_\_\_\_\_ to \_\_\_\_\_ ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**SEE BORING LOGS**

**5. REMARKS:**

**Bentonite Seal 22-24**

**6. TYPE:** Mud Rotary Jetted Bored  
Dug Air Rotary Driven  
Cable tool Auger Other

**7. PERMIT NUMBER:**

**MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential Public Supply Process  
Irrigation Air Conditioning Emergency  
Test Well **Monitor Well** Replacement

**9. WELL DEPTH (completed)**

**32.14** ft. Date Started: **1/24/15**  
Date Completed: **1/26/15**

**10. CASING:**

**Threaded** Welded  
Diameter: **2"**  
Type: **PVC**  
**2** in. to **26.94** ft. depth  
**6** in. to **20** ft. depth  
Height: Below  
Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.  
Drive Shoe: \_\_\_\_\_

**11. SCREEN:**

Type: **PVC** Diameter: **2"**  
Slot/Gauge: **0.010"** Length: **5'**  
Set Between: **26.94** ft. and **31.94** ft.  
Sieve Analysis: **Y/N**

**12. STATIC WATER LEVEL** **8.0** ft. below land surface after 24 hours.

**13. PUMPING LEVEL** Below Land Surface.

ft. after \_\_\_\_\_ hrs Pumping GPM  
Pumping Test: \_\_\_\_\_  
Yield: \_\_\_\_\_

**14. WATER QUALITY**

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**

**Sand**  
Installed from: **26** ft. to **31** ft.  
Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement Bentonite **Bentonite/Cement** Other  
Depth: From **0.0** ft. to **22** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** ft. direction

Type: \_\_\_\_\_  
Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:**

Date installed: \_\_\_\_\_  
Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
Capacity: \_\_\_\_\_ gpm  
TYPE: \_\_\_\_\_  
Submersible Jet (shallow) Turbine  
Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:**

Lawrence Large **CERT NO.: 2006**  
Address: **Smith Drilling Services** Level: A B C **D**  
**2443 High Meadows Court** (circle one)  
**Conyers, Georgia 30094**  
Telephone: **678-201-9849** Fax: \_\_\_\_\_

**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: **1/30/15**

If D Level Driller, provide supervising driller's name.

Joe Smith 1648B



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **Burnette's Service Station**  
 Address: (last) **11577 N. Jacob Smart Blvd** (first)  
 City: **Ridgeland** State: **SC** Zip: \_\_\_\_\_  
 Phone: **N/A**

**2. LOCATION OF WELL: COUNTY: Jasper**  
 Name: **Burnette's Service Station**  
 Address: **11577 N. Jacob Smart Blvd**  
 City: **Ridgeland, South Carolina**  
 239471.733 200795.962,

**3. PUBLIC SYSTEM NAME: 05289-MW20**

**4. ABANDONMENT:**

Grouted Depth:	from	to	ft.
Formation Description	Thickness of Stratum	Depth to Bottom of Stratum	

**SEE BORING LOGS**

**5. REMARKS:**  
**Bentonite Seal 1-2**

**6. TYPE:**

Mud Rotary	Jetted	Bored
Dug	Air Rotary	Driven
Cable tool	Auger	Other

**7. PERMIT NUMBER: MWA #UMW-25658; UST Permit #05289**

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<b>Monitor Well</b>	Replacement

**9. WELL DEPTH (completed):**  
**13.37** ft.  
 Date Started: **1/22/15**  
 Date Completed: **1/23/15**

**10. CASING:** **Threaded** (circled) **Welded**

Diameter: **2"**  
 Type: **PVC**  
 Height: **Below**  
 Surface: \_\_\_\_\_ ft.  
 Drive Shoe: \_\_\_\_\_

in. to **0.249** ft. depth  
 in. to **3.17** ft. depth

Weight: \_\_\_\_\_ lb./ft.

**11. SCREEN:**

Type: **PVC** Diameter: **2"**  
 Slot/Gauge: **0.010"** Length: **10**  
 Set Between: **3.17** ft. and **13.27** ft.  
 Sieve Analysis: **Y/N**

**12. STATIC WATER LEVEL 3** ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface.**

ft. after \_\_\_\_\_ hrs Pumping **GPM**  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**

Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack) Sand**

Installed from: **2** ft. to **13** ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement Bentonite **Bentonite/Cement** (circled) Other  
 Depth: From **0.0** ft. to **1** ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction

Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:**

Date installed: \_\_\_\_\_  
 Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm  
 TYPE: \_\_\_\_\_  
 Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

**19. WELL DRILLER:** Lawrence Large **CERT NO.: 2006**  
 Address: **Smith Drilling Services** Level: **A B C** **(circle one)**  
 2443 High Meadows Court  
 Conyers, Georgia 30094  
 Telephone: 678-201-9849 Fax: \_\_\_\_\_

**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: **1/30/15**  
 If D Level Driller, provide supervising driller's name.  
 Joe Smith 1648B



**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX F**

**AQUIFER CHARACTERIZATION DATA**



**SOUTH CAROLINA**  
**Department of Health and Environmental Control**  
**Summary of Slug Test Form**

**Site Data**

UST Permit # 05289 County: Jasper  
 Facility Name Burnette's Service Station

**Slug Data**

See Appendix F Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements.  
 (water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by water level meter .  
 (Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method).

Complete the following table for each well tested.

**COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED**

Slug Test Conducted in well(s) number	MW10	MW17	MW17D	
Initial Rise/Drawdown in well (feet)	12.11	9.96	11.26	
Radius of Well Casing (feet)	0.083	0.083	0.083	
Effective Radius of Well (feet)	0.270	0.270	0.270	
Static Saturated Aquifer Thickness (feet)	35	35	30	
Length of Well Screen (feet)	10	10	5	
Static Height of Water Column in Well (ft)	12.60	11.57	22.10	

**Calculations**

See Appendix \_\_\_\_\_ Table 4 Figure \_\_\_\_\_ for calculations. (Complete as appropriate).

The method for aquifer calculations was Bouwer & Rice

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	MW10	MW17	MW17D	
Hydraulic Conductivity	4.71E-5 cm/sec	7.49E-6 cm/sec	2.82E-7 cm/sec	

Thickness of the aquifer used to calculate hydraulic conductivity was 35 feet.

The aquifer is \_\_\_\_\_ confined \_\_\_\_\_ semi-confined X water table (Check as appropriate).

The estimated seepage velocity is 0.42 feet per year based on  
 a hydraulic conductivity of 1.83E-5 cm/sec, a hydraulic gradient of 0.006, and  
 a porosity of 0.18 per cent for silty, fine sandy clay.

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Slug Test Analysis - Bouwer & Rice/Hvorslev's Methods

Client: SCDHEC  
 Proj. Name: Pine view Investments, Inc.  
 Test by: James Slagh  
 Test Date: 01/30/15

Version: 0.96c  
 Revised: 2004-03-31  
 Well ID: MW-10

**User Input Data**

Aquifer Thickness	35.0
Well Length (L <sub>w</sub> )	12.60
Intake Length (L <sub>d</sub> )	10.00
Well Radius (R <sub>w</sub> )	0.270
Casing Radius (R <sub>c</sub> )	0.083
Xform ratio, m [(K <sub>r</sub> /K <sub>v</sub> ) <sup>0.5</sup> ]	1
Sandpack Porosity	0.270
Slug Volume	0.031
Static Level	0.000
Offset time	0.000

Calculation Set Number		
Calc. by	Chkd. by	Apvd. by
Date	Date	Date

R <sub>equiv</sub>	-1.000	-1.000	-1.000
Estimated Porosity & R <sub>w</sub>		-1.000	-1.000
ln(R <sub>E</sub> /R <sub>w</sub> )		2.399	-1.000
Shape Factor (F)		17.392	-1.000
Drawdown:	<u>Max. Y<sub>i</sub></u>	<u>Regr. Y<sub>o</sub></u>	<u>Casing Y<sub>o</sub></u>
	12.81	11.94	1.42

**CHECK WATER BALANCE - Regressed v. Casing Yo**

(undrained)  
 (unconfined)

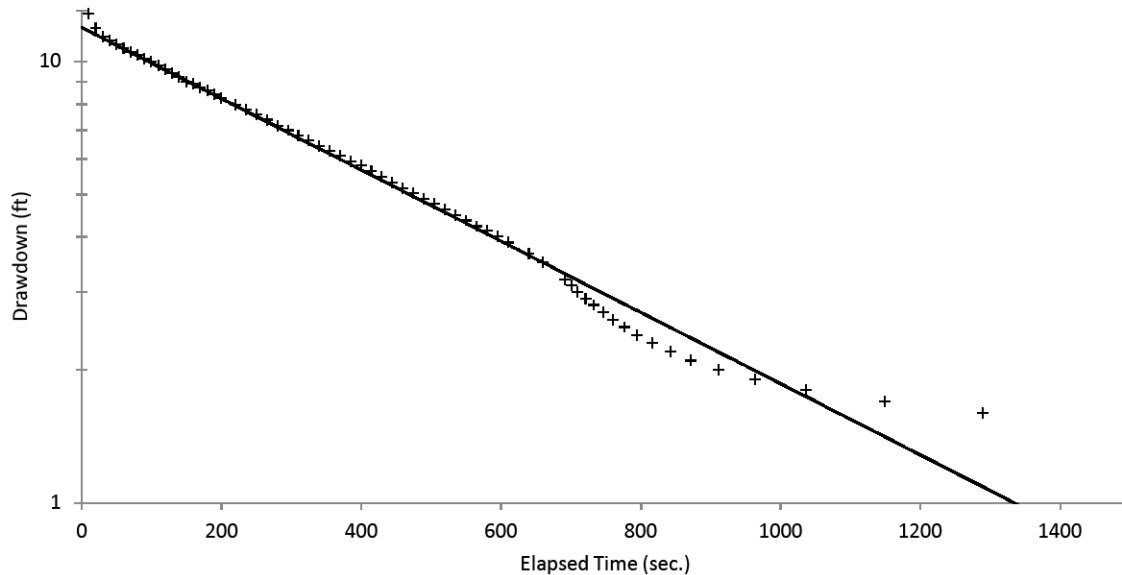
	Drained Options			
	A	B	C	D
	Undrained	User n/R <sub>w</sub>	Est. n	Est. R <sub>w</sub>
Bouwer & Rice - consistent units	1.5E-06			
cm/sec	4.71E-05			
Hvorslev - consistent units	2.3E-06			
cm/sec	7.10E-05			

Potentially acceptable solutions:

Conversion factor for user units: cm/sec 30.48

Intercept 2.480  
 Slope -0.002  
 No. of Observations 28  
 Starting Row 81  
 Ending Row 108

COMMENTS:



Time Seconds	level Feet	Drawdown Y(t)	ln(Y)		Est. Regression ln(Y) Range
0.000	0.700	0.700	-0.357		11.941
10.000	12.810	12.810	2.550		11.721
20.000	11.900	11.900	2.477		11.505
30.000	11.350	11.350	2.429		11.293
40.000	11.140	11.140	2.411		11.085
50.000	10.910	10.910	2.390		10.881
60.000	10.700	10.700	2.370		10.681
70.000	10.500	10.500	2.351		10.484
80.000	10.310	10.310	2.333		10.291
90.000	10.130	10.130	2.316		10.102
100.000	9.950	9.950	2.298		9.916
110.000	9.760	9.760	2.278		9.733
120.000	9.580	9.580	2.260		9.554
130.000	9.400	9.400	2.241		9.378
140.000	9.210	9.210	2.220		9.205
150.000	9.010	9.010	2.198		9.036
160.000	8.900	8.900	2.186		8.869
170.000	8.730	8.730	2.167		8.706
180.000	8.580	8.580	2.149		8.546
190.000	8.430	8.430	2.132		8.388
200.000	8.270	8.270	2.113		8.234
220.000	7.980	7.980	2.077		7.933
235.000	7.780	7.780	2.052	2.052	7.715
250.000	7.570	7.570	2.024	2.024	7.503
265.000	7.360	7.360	1.996	1.996	7.297
280.000	7.160	7.160	1.969	1.969	7.096
295.000	6.970	6.970	1.942	1.942	6.901
310.000	6.790	6.790	1.915	1.915	6.711
325.000	6.610	6.610	1.889	1.889	6.527
340.000	6.430	6.430	1.861	1.861	6.347
355.000	6.270	6.270	1.836	1.836	6.173
370.000	6.110	6.110	1.810	1.810	6.003
385.000	5.940	5.940	1.782	1.782	5.838
400.000	5.800	5.800	1.758	1.758	5.678
415.000	5.630	5.630	1.728	1.728	5.521
430.000	5.480	5.480	1.701	1.701	5.370
445.000	5.310	5.310	1.670	1.670	5.222
460.000	5.160	5.160	1.641	1.641	5.078
475.000	5.020	5.020	1.613	1.613	4.939
490.000	4.880	4.880	1.585	1.585	4.803
505.000	4.750	4.750	1.558	1.558	4.671
520.000	4.620	4.620	1.530	1.530	4.543
535.000	4.480	4.480	1.500	1.500	4.418
550.000	4.360	4.360	1.472	1.472	4.296
565.000	4.230	4.230	1.442	1.442	4.178
580.000	4.120	4.120	1.416	1.416	4.063
595.000	4.000	4.000	1.386	1.386	3.952
610.000	3.880	3.880	1.356	1.356	3.843
640.000	3.670	3.670	1.300	1.300	3.634
660.000	3.510	3.510	1.256	1.256	3.502
691.000	3.200	3.200	1.163		3.306
702.000	3.100	3.100	1.131		3.239
710.000	3.000	3.000	1.099		3.191
721.000	2.900	2.900	1.065		3.127

733.000	2.800	2.800	1.030	3.058
746.000	2.700	2.700	0.993	2.985
760.000	2.600	2.600	0.956	2.908
777.000	2.500	2.500	0.916	2.817
795.000	2.400	2.400	0.875	2.725
817.000	2.300	2.300	0.833	2.616
842.000	2.200	2.200	0.788	2.497
872.000	2.100	2.100	0.742	2.361
911.000	2.000	2.000	0.693	2.196
964.000	1.900	1.900	0.642	1.990
1037.000	1.800	1.800	0.588	1.738
1149.000	1.700	1.700	0.531	1.411
1289.000	1.600	1.600	0.470	1.088
1507.000	1.500	1.500	0.405	0.725

Slug Test Analysis - Bouwer & Rice/Hvorslev's Methods

Version: 0.96c  
 Revised: 2004-03-31  
 Well ID: MW-17

Client: SCDHEC  
 Proj. Name: Pine view Investments, Inc.  
 Test by: James Slagh  
 Test Date: 01/30/15

Calculation Set Number		
Calc. by	Chkd. by	Apvd. by
Date	Date	Date

**User Input Data**

Aquifer Thickness	35.0
Well Length (L <sub>w</sub> )	11.57
Intake Length (L <sub>d</sub> )	10.00
Well Radius (R <sub>w</sub> )	0.270
Casing Radius (R <sub>c</sub> )	0.083
Xform ratio, m [(K <sub>r</sub> /K <sub>v</sub> ) <sup>0.5</sup> ]	1
Sandpack Porosity	0.270
Slug Volume	0.031
Static Level	0.000
Offset time	0.000

R <sub>equiv</sub>	-1.000	-1.000	-1.000
Estimated Porosity & R <sub>w</sub>		-1.000	-1.000
ln(R <sub>E</sub> /R <sub>w</sub> )		2.359	-1.000
Shape Factor (F)		17.392	-1.000
Drawdown:	<u>Max. Y<sub>i</sub></u>	<u>Regr. Y<sub>o</sub></u>	<u>Casing Y<sub>o</sub></u>
	11.99	11.01	1.42

**CHECK WATER BALANCE - Regressed v. Casing Yo**

(undrained)

(unconfined)

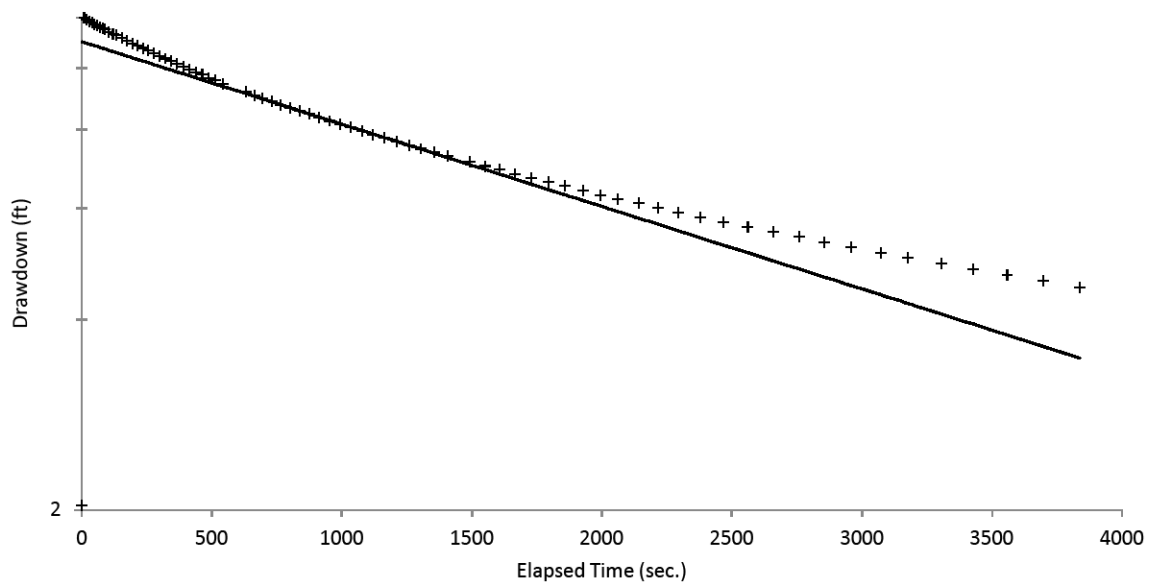
	Drained Options			
	A	B	C	D
	Undrained	User n/R <sub>w</sub>	Est. n	Est. R <sub>w</sub>
Bouwer & Rice - consistent units	2.5E-07			
cm/sec	7.49E-06			
Hvorslev - consistent units	3.8E-07			
cm/sec	1.15E-05			

Potentially acceptable solutions:

Conversion factor for user units: cm/sec 30.48

Intercept 2.399  
 Slope 0.000  
 No. of Observations 0  
 Starting Row 90  
 Ending Row 109

COMMENTS:



Time Seconds	level Feet	Drawdown Y(t)	ln(Y)		Est. Regression ln(Y) Range
0.000	2.030	2.030	0.708		11.013
10.000	11.990	11.990	2.484		10.980
20.000	11.920	11.920	2.478		10.947
30.000	11.850	11.850	2.472		10.914
40.000	11.790	11.790	2.467		10.882
50.000	11.730	11.730	2.462		10.849
60.000	11.670	11.670	2.457		10.816
70.000	11.610	11.610	2.452		10.784
80.000	11.550	11.550	2.447		10.752
90.000	11.500	11.500	2.442		10.719
105.000	11.410	11.410	2.434		10.671
120.000	11.330	11.330	2.427		10.623
136.000	11.250	11.250	2.420		10.572
155.000	11.150	11.150	2.411		10.512
176.000	11.050	11.050	2.402		10.446
195.000	10.950	10.950	2.393		10.387
215.000	10.850	10.850	2.384		10.325
236.000	10.750	10.750	2.375		10.260
257.000	10.650	10.650	2.366		10.195
278.000	10.550	10.550	2.356		10.131
300.000	10.450	10.450	2.347		10.064
322.000	10.350	10.350	2.337		9.998
345.000	10.250	10.250	2.327		9.929
367.000	10.150	10.150	2.317		9.864
391.000	10.050	10.050	2.308		9.793
415.000	9.950	9.950	2.298		9.723
439.000	9.850	9.850	2.287		9.653
464.000	9.750	9.750	2.277		9.581
489.000	9.650	9.650	2.267		9.509
514.000	9.550	9.550	2.257		9.438
542.000	9.450	9.450	2.246		9.359
633.000	9.150	9.150	2.214	2.214	9.107
665.000	9.050	9.050	2.203	2.203	9.020
697.000	8.950	8.950	2.192	2.192	8.933
731.000	8.850	8.850	2.180	2.180	8.843
766.000	8.750	8.750	2.169	2.169	8.750
802.000	8.650	8.650	2.158	2.158	8.656
838.000	8.550	8.550	2.146	2.146	8.563
876.000	8.450	8.450	2.134	2.134	8.466
915.000	8.350	8.350	2.122	2.122	8.367
954.000	8.250	8.250	2.110	2.110	8.270
994.000	8.150	8.150	2.098	2.098	8.171
1035.000	8.050	8.050	2.086	2.086	8.071
1078.000	7.950	7.950	2.073	2.073	7.968
1120.000	7.850	7.850	2.061	2.061	7.868
1163.000	7.750	7.750	2.048	2.048	7.767
1211.000	7.650	7.650	2.035	2.035	7.656
1259.000	7.550	7.550	2.022	2.022	7.546
1307.000	7.450	7.450	2.008	2.008	7.438
1357.000	7.350	7.350	1.995	1.995	7.327
1409.000	7.250	7.250	1.981	1.981	7.214
1492.000	7.100	7.100	1.960		7.036
1550.000	7.000	7.000	1.946		6.915
1609.000	6.900	6.900	1.932		6.793



1668.000	6.800	6.800	1.917	6.674
1731.000	6.700	6.700	1.902	6.549
1794.000	6.600	6.600	1.887	6.426
1859.000	6.500	6.500	1.872	6.302
1929.000	6.400	6.400	1.856	6.171
1995.000	6.300	6.300	1.841	6.050
2064.000	6.200	6.200	1.825	5.926
2144.000	6.100	6.100	1.808	5.785
2217.000	6.000	6.000	1.792	5.660
2296.000	5.900	5.900	1.775	5.527
2380.000	5.800	5.800	1.758	5.389
2468.000	5.700	5.700	1.740	5.249
2562.000	5.600	5.600	1.723	5.103
2660.000	5.500	5.500	1.705	4.955
2760.000	5.400	5.400	1.686	4.808
2857.000	5.300	5.300	1.668	4.670
2959.000	5.200	5.200	1.649	4.529
3072.000	5.100	5.100	1.629	4.378
3177.000	5.000	5.000	1.609	4.242
3306.000	4.900	4.900	1.589	4.081
3429.000	4.800	4.800	1.569	3.933
3560.000	4.700	4.700	1.548	3.781
3698.000	4.600	4.600	1.526	3.628
3838.000	4.500	4.500	1.504	3.478

Slug Test Analysis - Bouwer & Rice/Hvorslev's Methods

Client: SCDHEC  
 Proj. Name: Pine view Investments, Inc.  
 Test by: James Slagh  
 Test Date: 01/30/15

Version: 0.96c  
 Revised: 2004-03-31  
 Well ID: MW-17D

**User Input Data**

Aquifer Thickness	35.0
Well Length (L <sub>w</sub> )	22.10
Intake Length (L <sub>i</sub> )	5.00
Well Radius (R <sub>w</sub> )	0.270
Casing Radius (R <sub>c</sub> )	0.083
Xform ratio, m [(K <sub>i</sub> /K <sub>v</sub> ) <sup>0.5</sup> ]	1
Sandpack Porosity	0.270
Slug Volume	0.031
Static Level	0.000
Offset time	0.000

Calculation Set Number		
Calc. by	Chkd. by	Apvd. by
Date	Date	Date

R <sub>equiv</sub>	-1.000	-1.000	-1.000
Estimated Porosity & R <sub>w</sub>		-1.000	-1.000
ln(R <sub>E</sub> /R <sub>w</sub> )		2.260	-1.000
Shape Factor (F)		10.753	-1.000
Drawdown:	<u>Max. Y<sub>i</sub></u>	<u>Regr. Y<sub>o</sub></u>	<u>Casing Y<sub>o</sub></u>
	19.53	19.11	1.42

**CHECK WATER BALANCE - Regressed v. Casing Y<sub>o</sub>**

(undrained)  
 (unconfined)

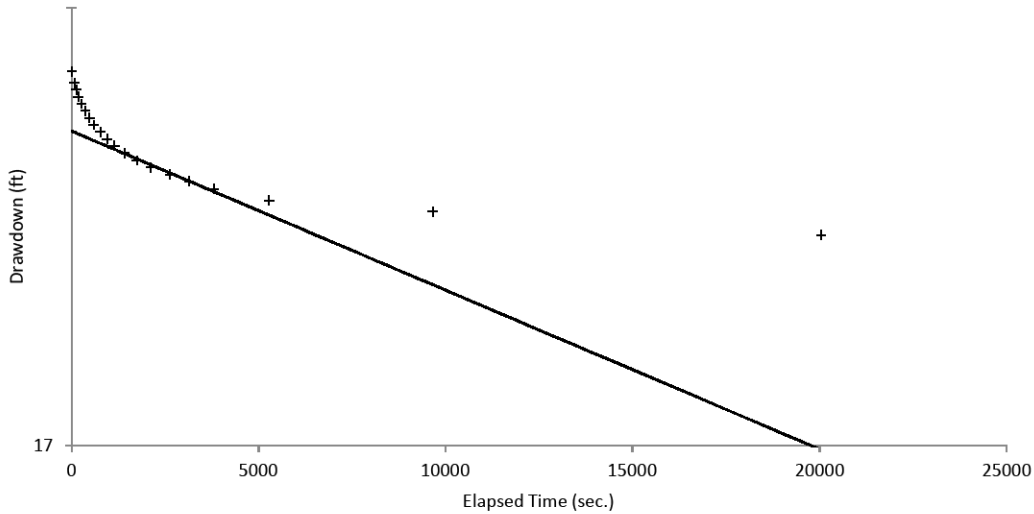
	Drained Options			
	A	B	C	D
	Undrained	User n/R <sub>w</sub>	Est. n	Est. R <sub>w</sub>
Bouwer & Rice - consistent units	9.3E-09			
cm/sec	2.82E-07			
Hvorslev - consistent units	1.2E-08			
cm/sec	3.65E-07			

Potentially acceptable solutions:

Conversion factor for user units: cm/sec 30.48

Intercept 2.950  
 Slope 0.000  
 No. of Observations 2  
 Starting Row 70  
 Ending Row 76

COMMENTS:

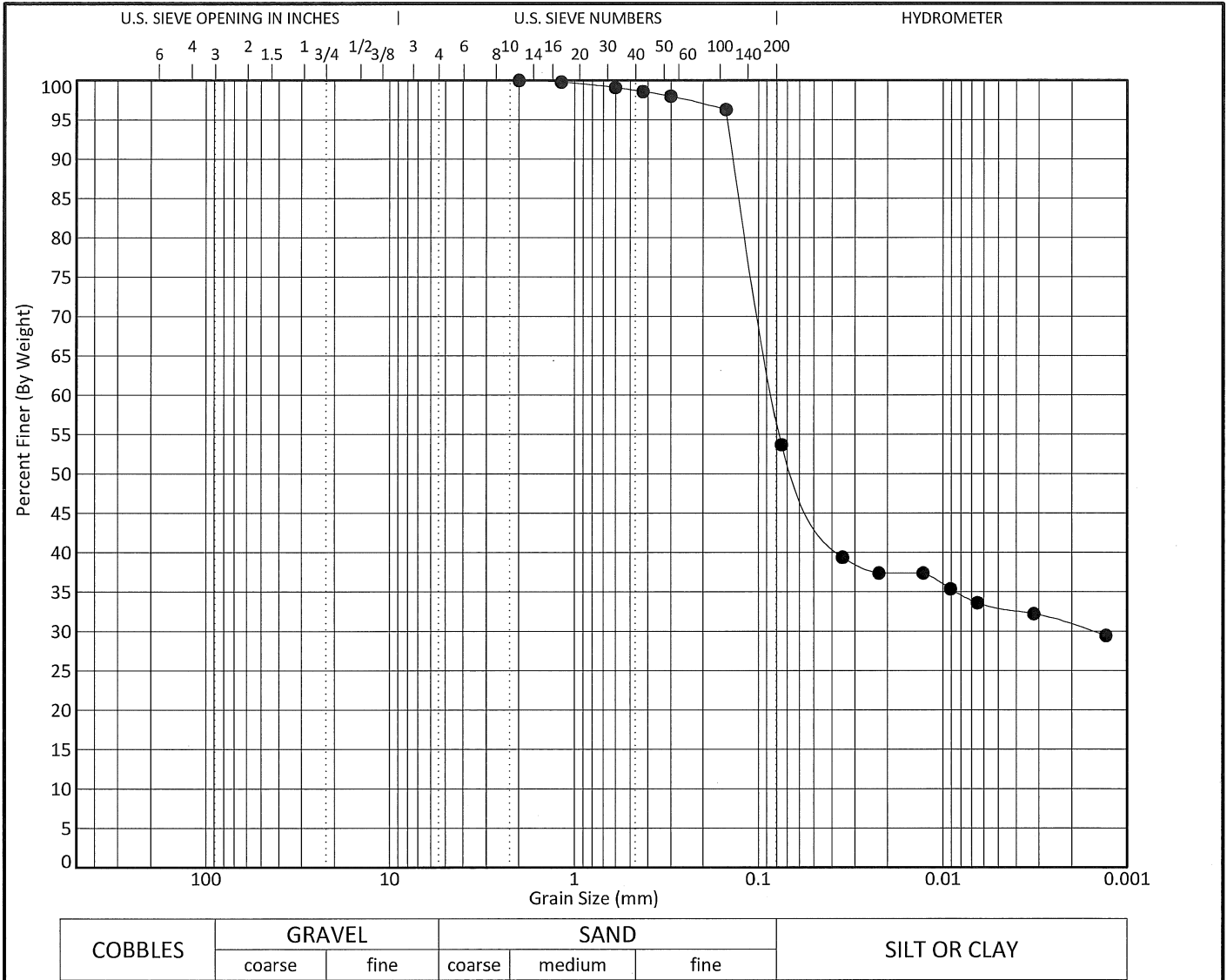


Time Seconds	level Feet	Drawdown Y(t)	ln(Y)		Est. Regression ln(Y) Range
0.000	8.270	8.270	2.113		19.107
10.000	19.530	19.530	2.972		19.105
90.000	19.450	19.450	2.968		19.096
139.000	19.400	19.400	2.965		19.091
191.000	19.350	19.350	2.963		19.085
272.000	19.300	19.300	2.960		19.076
376.000	19.250	19.250	2.958		19.064
486.000	19.200	19.200	2.955		19.052
596.000	19.150	19.150	2.952		19.039
770.000	19.100	19.100	2.950		19.020
963.000	19.050	19.050	2.947		18.998
1152.000	19.000	19.000	2.944	2.944	18.977 <==
1421.000	18.950	18.950	2.942	2.942	18.947 <==
1755.000	18.900	18.900	2.939	2.939	18.910 <==
2126.000	18.850	18.850	2.937	2.937	18.868 <==
2633.000	18.800	18.800	2.934	2.934	18.812 <==
3152.000	18.750	18.750	2.931	2.931	18.754 <==
3811.000	18.700	18.700	2.929	2.929	18.682 <==
5280.000	18.620	18.620	2.924		18.520
9660.000	18.540	18.540	2.920		18.048
20040.000	18.380	18.380	2.911		16.975

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Project No:  
 Client: Shealy Enviromental  
 Project: 65R-3212  
 City/State: West Columbia, SC



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring No.	Depth	Classification				LL	PL	PI	Cc	Cu
● MW 17	at 10.0	()								
	at									
	at									
	at									
	at									
Boring No.	Depth	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
● MW 17	at 10.0	2	0.083	0.002		0.0	46.3	20.6	33.1	
	at									
	at									
	at									
	at									

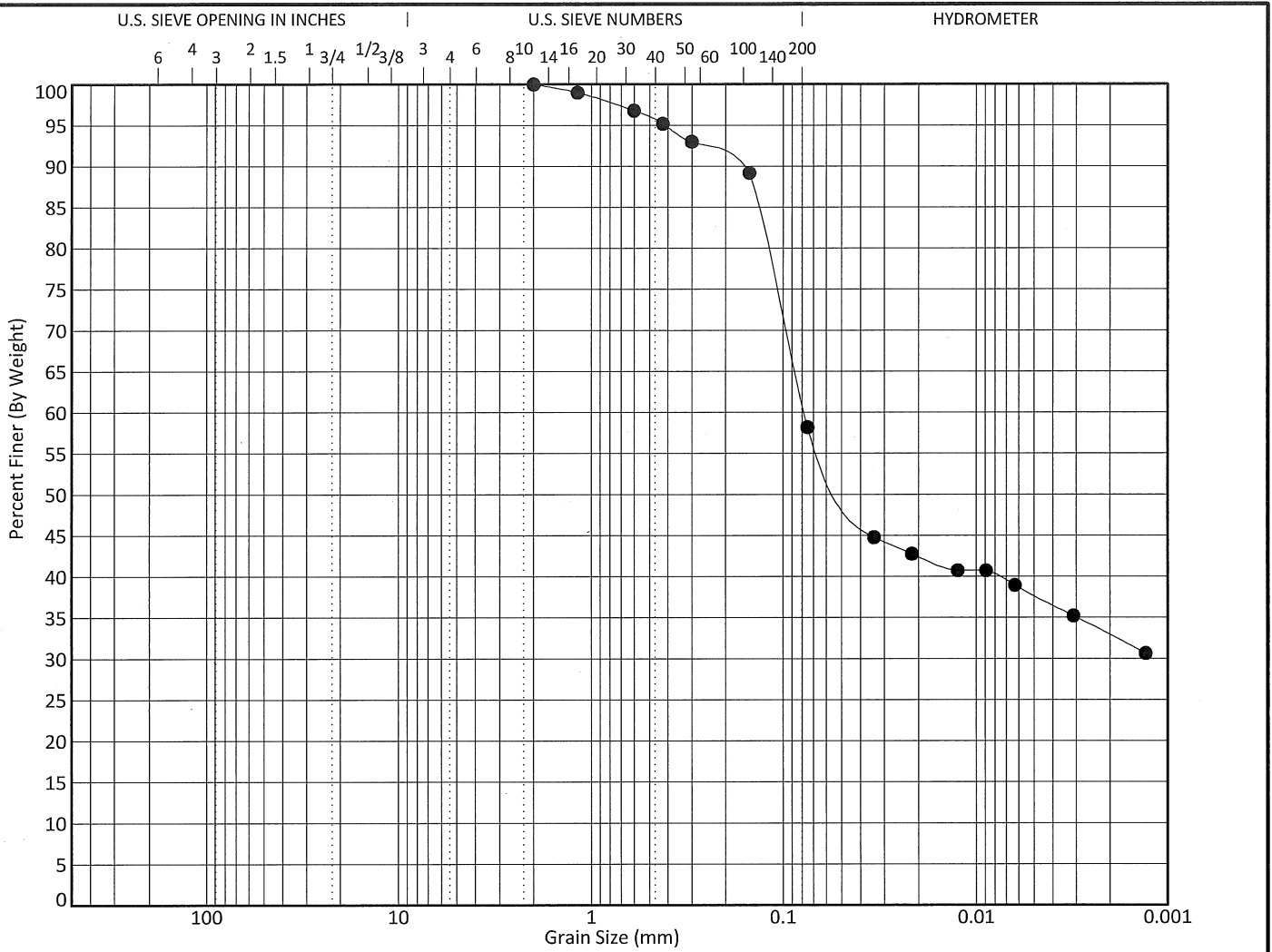
US GRAIN SIZE 65R-3212.GPJ F&R.GDT 2/5/15



FROEHLING & ROBERTSON, INC.

# GRAIN SIZE DISTRIBUTION

Project No:  
 Client: Shealy Enviromental  
 Project: 65R-3212  
 City/State: West Columbia, SC



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring No.	Depth	Classification	LL	PL	PI	Cc	Cu
● MW 17D at	30.0	( )					
at							
at							
at							
at							

Boring No.	Depth	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● MW 17D at	30.0	2	0.078			0.0	41.8	20.5	37.7
at									
at									
at									
at									

US GRAIN SIZE 65R-3212.GPJ F&R.GDT 2/11/15

**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX G**

**DISPOSAL MANIFESTS AND WEIGHT TICKETS**

# WASTE MANIFEST

WASTE ID NUMBER  
**605496SC**

EXPIRATION DATE  
**October 24, 2016**

**Hickory Hill Landfill**  
2621 Low Country Drive  
Ridgeland, SC 29936



Special Waste Phone: (843) 987-0710  
Fax: 843-987-8594

Prepared by: **Sandra Reeves**

GENERATOR OF WASTE: **PETRA-TECH ENVIRONMENTAL, LLC**

CUSTOMER: **PETRA-TECH ENVIRONMENTAL, LLC** ACCOUNT NUMBER: **820-0001043-0082-7**

LOCATION OF WASTE:  
CITY: **Ridgeland** COUNTY: **JASPER**


PHONE NUMBER: **864-436-6322** CONTACT: **TREVER SLACK**

FAX NUMBER: **888-838-9034**

GENERATOR'S SIGNATURE:  DATE: **1-27-15**

TRANSPORTER OF WASTE: **Smith Drilling**

DATE: **1-27-15** TRUCK NUMBER: **7-3**

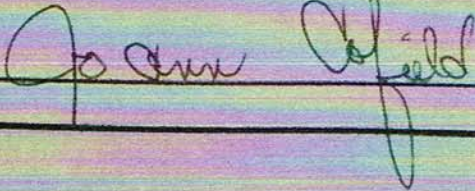
DRIVER'S SIGNATURE: 

\*\*\*\* TO BE COMPLETED BY HICKORY HILL LANDFILL\*\*\*\*

DISPOSAL SITE: **HICKORY HILL LANDFILL, RIDGELAND, SC**

DESCRIPTION OF WASTE: **DRILL CUTTINGS** Waste Class: **DRILL CUTTINGS**

TICKET NUMBER: **752877** TONNAGE: **4.29**

RECEIVED BY: 





Hickory Hill Landfill  
 2621 LOW COUNTRY DRIVE  
 RIDGELAND, SC, 29936  
 Ph: 843-987-4643

Original  
 Ticket# 752877

Customer Name PETRATECHENVIRO PETRA-TECH EN Carrier Smith Drilling servi Manifest  
 Ticket Date 01/27/2015 Vehicle# 1 Volume  
 Payment Type Credit Account Container  
 Manual Ticket# Driver Manifest  
 Hauling Ticket# Check#  
 Route Billing # 0000661  
 State Waste Code Gen EPA ID NR  
 Manifest Petra-Tech  
 Destination  
 PO  
 Profile 605496SC (DRILL CUTTINGS)  
 Generator 126-PETRATECHENVIRO PETRA-TECH ENVIRONMENTAL, LLC

	Time	Scale	Operator	Gross	22950 lb
In	01/27/2015 07:56:01	scale2	joofield	Tare	14300 lb
Out	01/27/2015 08:11:23	scale2	joofield	Net	8500 lb
				Tons	4.29

Comments


Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W. -T	100	4.29	Tons				RIDGEL
2 RCR-P-Regulatory C	100		%				RIDGEL
3 FUEL-Fuel Surcharg	100		%				RIDGEL
4 EVF-P-Standard Env	100		%				RIDGEL

UST # 14929 ~ 2.5 tons  
 William Cooper  
 UST # 05289  
 Burnett's ~ 1.7 tons

Total Fees  
 Total Ticket

*[Handwritten signature]*

# SPECIAL WASTE MANIFEST

WASTE ID NUMBER 605496SC	<i>Richland Landfill</i> 1047 Highway Church Road Elgin, SC 29045  Special Waste Phone: 803-744-3345 Fax: 866-904-7194
EXPIRATION DATE October 24, 2016	
Prepared by: Sandra Reeves	
GENERATOR OF WASTE: PETRA-TECH ENVIRONMENTAL, LLC	ACCOUNT NUMBER: 820-0001043-0082-7
CUSTOMER: PETRA-TECH ENVIRONMENTAL, LLC	LOCATION OF WASTE:
CITY:	COUNTY: Hampton
PHONE NUMBER: 864-436-6322	CONTACT: TREVER SLACK
FAX NUMBER: 888-838-9034	DATE: <del>10/28/2014</del> 1-30-15
GENERATOR'S SIGNATURE <i>[Signature]</i>	
TRANSPORTER OF WASTE: <i>Smith Drilling</i>	
DATE: <i>1-30-15</i>	TRUCK NUMBER: <i>T-3</i>
DRIVER'S SIGNATURE <i>[Signature]</i>	
**** TO BE COMPLETED BY RICHLAND LANDFILL****	
DISPOSAL SITE: RICHLAND LANDFILL ELGIN, SC	Waste Class: DRILL CUTTINGS
DESCRIPTION OF WASTE: DRILL CUTTINGS	
TICKET NUMBER: <i>1340318</i>	TONNAGE: <i>1.70</i>
RECEIVED BY: <i>DLM</i>	



Richland County LF  
 1047 Highway Church Road  
 Elgin, SC, 29045  
 Ph: (803) 788-3054

Original  
 Ticket# 1360318

Customer Name PETRATECHENVIRO PETRA-TECH EN Carrier SMITH DRILLING  
 Ticket Date 01/30/2015 Vehicle# T 3  
 Payment Type Credit Account Container Driver  
 Manual Ticket# Check#  
 Hauling Ticket# Billing # 0001043  
 Route State Waste Code Gen EPA ID NR  
 Manifest @  
 Destination PC

Profile 605496SC (DRILL CUTTINGS)  
 Generator 126-PETRATECHENVIRO PETRA-TECH ENVIRONMENTAL, LLC

Time Scale ScaleMaster  
 In 01/30/2015 07:20:52 Inbound #2 Dwayne  
 Out 01/30/2015 07:40:28 Outbound Dwayne  
 Gross 16600 lb  
 Tare 13200 lb  
 Net 3400 lb  
 Tons 1.70

Comments



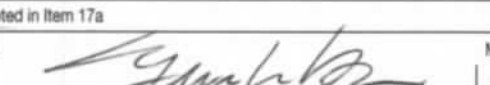
Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T 100		1.70	Tons				25-HAMPTON
2 RCR-P-Regulatory C 100		%	%				25-HAMPTON
3 FUEL-Fuel Surcharg 100		%	%				25-HAMPTON
4 EVF-P-Standard Env 100		%	%				25-HAMPTON

*VST or 05284 1.70 tons.  
 Burned*

Total Fees  
 Total Ticket

GNATURE



GENERATOR	<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone		4. Waste Tracking Number <b>021015-03</b>			
	5. Generator's Name and Mailing Address <b>PETRA - TECH ENVIRONMENTAL 2435 E NORTH STREET, SUITE 1108-202 GREENVILLE, SC 29615</b>					Generator's Site Address (if different than mailing address)					
Generator's Phone: <b>803-806-2944</b>											
6. Transporter 1 Company Name <b>Petra Tech Env. LLC</b>							U.S. EPA ID Number				
7. Transporter 2 Company Name							U.S. EPA ID Number				
8. Designated Facility Name and Site Address <b>VLS RECOVERY SERVICES, LLC 305 S. MAIN STREET MAULDIN, SC 29652</b>							U.S. EPA ID Number <b>SCR000752458</b>				
Facility's Phone: <b>864-962-9953</b>											
TRANSPORTER	9. Waste Shipping Name and Description					10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
						No.	Type				
	1. <b>NON HAZ NON REGULATED WELL WATER #16374</b>					1		AC		175 GAL	
	2.							#09289			
	3.							~105 gal			
4.							~50 gal				
INT'L	13. Special Handling Instructions and Additional Information  <b>UST Permit #09114 ~20 gal</b>										
	14. <b>GENERATOR'S/OFFEROR'S CERTIFICATION:</b> 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 <b>Daniel Buch</b>					Signature 			Month Day Year <b>2 10 15</b>			
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name <b>Daniel Buch</b>					Signature 			Month Day Year		
Transporter 2 Printed/Typed Name					Signature			Month Day Year			
DESIGNATED FACILITY	17. Discrepancy										
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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 <b>Steven Huban</b>					Signature 			Month Day Year <b>2 10 15</b>			

**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX H**

**ZONING REGULATIONS**

**Not Applicable to Current Scope of Work**

**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX I**

**LEACHABILITY AND FATE AND TRANSPORT MODELS**


**Not Applicable to Current Scope of Work**





**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**


**APPENDIX J**


**RIGHT-OF-ENTRY FORMS, LETTERS PROVIDING ABBREVIATED COPIES  
TO EACH PROPERTY OWNER**


	<b>Private Water Supply Well WSW01</b>
	<b>GPS/Survey Coordinates</b> N 239433.46 E 2007297.89
	<b>Parcel ID</b> 062-22 -03-001
	<b>Property Owner Name</b> HENRY TORRES, JR.
	<b>Property Owner Address</b> 721 N HWY 17 RIDGELAND, SC 29936
	<b>Property Owner Phone/Email</b> Not available
	<b>Details</b> Active private water supply well. Well construction details unknown.


	<b>Private Water Supply Well WSW02</b>
	<b>GPS/Survey Coordinates</b> N 239103.44 E 2007098.13
	<b>Parcel ID</b> 063-27 -12-001
	<b>Property Owner Name</b> PLANTATION INVESTMENTS
	<b>Property Owner Address</b> PO BOX 579 HARTSVILLE, SC 29551
	<b>Property Owner Phone/Email</b> Not available
	<b>Details</b> Inactive private water supply well. Well could not be accessed at the wellhead.


	<b>Private Water Supply Well WSW03</b>
	<b>GPS/Survey Coordinates</b> 32°29'33.69"N 80°58'22.87"W
	<b>Parcel ID</b> 063-00 -08-003
	<b>Property Owner Name</b> JOSEPH URBANEK
	<b>Property Owner Address</b> 128 BARTON BEND LANE COLUMBIA, SC 29206
	<b>Property Owner Phone/Email</b> 803-917-4171
	<b>Details</b> Active private water supply well used as a source of drinking water. According to property owner, well was installed circa 1990 and is 384 feet deep.

	<b>Private Water Supply Well WSW04</b>
	<b>GPS/Survey Coordinates</b> 32°29'16.52"N 80°58'34.90"W
	<b>Parcel ID</b> 063-27-13-009
	<b>Property Owner Name</b> St James Ridgeland LLC
	<b>Property Owner Address</b> 605 Lakeland Road South Severna Park, MD 21146
	<b>Property Owner Phone/Email</b> 443.562.1064
	<b>Details</b> Active private water supply well. Well Construction details unknown.

	<b>Surface Water Sampling Location SW01</b>
	<b>GPS/Survey Coordinates</b> 32°29'30.30"N 80°58'33.78"W
	<b>Parcel ID</b> 062-22 -03-001
	<b>Property Owner Name</b> HENRY TORRES, JR.
	<b>Property Owner Address</b> 721 N HWY 17 RIDGELAND, SC 29936
	<b>Property Owner Phone/Email</b> Not available
	<b>Details</b> Drainage feature along northern boundary of site/UST basin.

	<b>Surface Water Sampling Location SW02</b>
	<b>GPS/Survey Coordinates</b> 32°29'28.30"N 80°58'33.92"W
	<b>Parcel ID</b> 062-22 -03-001
	<b>Property Owner Name</b> HENRY TORRES, JR.
	<b>Property Owner Address</b> 721 N HWY 17 RIDGELAND, SC 29936
	<b>Property Owner Phone/Email</b> Not available
	<b>Details</b> Drainage ditch located along eastern side of site.

	<b>Surface Water Sampling Location SW03</b>
	<b>GPS/Survey Coordinates</b> 32°29'33.69"N 80°58'22.87"W
	<b>Parcel ID</b> 063-00 -08-003
	<b>Property Owner Name</b> JOSEPH URBANEK
	<b>Property Owner Address</b> 128 BARTON BEND LANE COLUMBIA, SC 29206
	<b>Property Owner Phone/Email</b> 803-917-4171
	<b>Details</b> Pond located approximately 550 feet northeast of site. Pond is fed by Captain Bill Creek.

	<b>Surface Water Sampling Location SW04</b>
	<b>GPS/Survey Coordinates</b> 32°29'16.52"N 80°58'34.90"W
	<b>Parcel ID</b> 063-30 -01-001
	<b>Property Owner Name</b> THREE STAR DEVELOPMENT
	<b>Property Owner Address</b> 617 BAILEY LANE RIDGELAND, SC 29936
	<b>Property Owner Phone/Email</b> 843-263-6724
	<b>Details</b> Unnamed intermittent stream located approximately 400 feet to the east of the site.



**Surface Water Sampling Location SW05**

**GPS/Survey Coordinates**

32°29'28.71"N 80°58'32.00"W

**Parcel ID**

063-30 -01-001

**Property Owner Name**

THREE STAR DEVELOPMENT

**Property Owner Address**

617 BAILEY LANE  
RIDGELAND, SC 29936

**Property Owner Phone/Email**

843-263-6724

**Details**

Drainage ditch located east of the subject site – opposite side of Highway 17.

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January 25, 2015

HENRY TORRES, JR.  
721 N HWY 17  
RIDGELAND, SC 29936

Subject: **Tier II Assessment Report – Abbreviated Copy**  
Burnette's Service Station  
11577 N. Jacob Smart Boulevard  
Ridgeland, Jasper County, South Carolina  
SCDHEC UST Permit #05289  
PTE Job No. J14-080-A

Dear property owner:

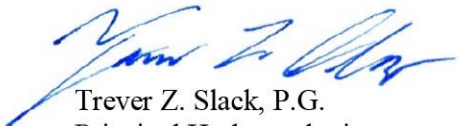
Please find enclosed a copy of the Tier II Assessment Report for your records. The report describes activities performed on behalf of UST Permit #05289 located at 11577 N. Jacob Smart Boulevard in Ridgeland, Jasper County, South Carolina. The Tier II Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated September 17, 2014. The Tier II Assessment Report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

If you have any questions regarding the above mentioned assessment report, please do not hesitate to contact us or the South Carolina Department of Health and Environmental Control (SCDHEC) at:

SCDHEC – Ms. Minda Hornosky, Project Manager  
Phone: 803.898.7542  
Email: [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov)

Sincerely,

**Petra-Tech Environmental**



Trever Z. Slack, P.G.  
Principal Hydrogeologist



January 25, 2015

THREE STAR DEVELOPMENT  
617 BAILEY LANE  
RIDGELAND, SC 29936

Subject: **Tier II Assessment Report – Abbreviated Copy**  
Burnette's Service Station  
11577 N. Jacob Smart Boulevard  
Ridgeland, Jasper County, South Carolina  
SCDHEC UST Permit #05289  
PTE Job No. J14-080-A

Dear property owner:


Please find enclosed a copy of the Tier II Assessment Report for your records. The report describes activities performed on behalf of UST Permit #05289 located at 11577 N. Jacob Smart Boulevard in Ridgeland, Jasper County, South Carolina. The Tier II Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated September 17, 2014. The Tier II Assessment Report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

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SCDHEC – Ms. Minda Hornosky, Project Manager  
Phone: 803.898.7542  
Email: [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov)

Sincerely,

**Petra-Tech Environmental**



Trever Z. Slack, P.G.  
Principal Hydrogeologist

January 25, 2015

JOSEPH URBANEK  
128 BARTON BEND LANE  
COLUMBIA, SC 29206

Subject: **Tier II Assessment Report – Abbreviated Copy**  
Burnette's Service Station  
11577 N. Jacob Smart Boulevard  
Ridgeland, Jasper County, South Carolina  
SCDHEC UST Permit #05289  
PTE Job No. J14-080-A

Dear property owner:


Please find enclosed a copy of the Tier II Assessment Report for your records. The report describes activities performed on behalf of UST Permit #05289 located at 11577 N. Jacob Smart Boulevard in Ridgeland, Jasper County, South Carolina. The Tier II Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated September 17, 2014. The Tier II Assessment Report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

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SCDHEC – Ms. Minda Hornosky, Project Manager  
Phone: 803.898.7542  
Email: [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov)

Sincerely,

**Petra-Tech Environmental**

  
Trever Z. Slack, P.G.  
Principal Hydrogeologist

January 25, 2015

CLAIRE LINDGREN IRREVOCABLE TRUST  
PO BOX 23164  
HILTON HEAD, SC 29925

Subject: **Tier II Assessment Report – Abbreviated Copy**  
Burnette's Service Station  
11577 N. Jacob Smart Boulevard  
Ridgeland, Jasper County, South Carolina  
SCDHEC UST Permit #05289  
PTE Job No. J14-080-A

Dear property owner:


Please find enclosed a copy of the Tier II Assessment Report for your records. The report describes activities performed on behalf of UST Permit #05289 located at 11577 N. Jacob Smart Boulevard in Ridgeland, Jasper County, South Carolina. The Tier II Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated September 17, 2014. The Tier II Assessment Report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

If you have any questions regarding the above mentioned assessment report, please do not hesitate to contact us or the South Carolina Department of Health and Environmental Control (SCDHEC) at:

SCDHEC – Ms. Minda Hornosky, Project Manager  
Phone: 803.898.7542  
Email: [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov)

Sincerely,

**Petra-Tech Environmental**



Trever Z. Slack, P.G.  
Principal Hydrogeologist

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SITE ACCESS AGREEMENT

This SITE ACCESS AGREEMENT ("Agreement") is entered into by \_\_\_\_\_ "Owner," and UST #05289.

WHEREAS, Owner owns the property (the "Property") described as follows: Tax Map ID 063-30-01-001 located at <SEE TAX MAP ID>, Ridgeland, Jasper County, SC

WHEREAS, UST #05289 owned the nearby lot located at 11577 N Jacob Smart Blvd., Ridgeland, South Carolina proximal to the Property (the "Proximal Property");

WHEREAS, the South Carolina Department of Health and Environmental Control, (SCDHEC) is requiring UST #05289 to conduct certain assessment activities relating to groundwater contamination present on the Proximal Property; and

WHEREAS, for UST #05289 to conduct the testing relating to these assessment activities, UST #05289 needs the permission of owner to enter onto the Proximal Property in order to conduct the assessment activities specified herein.

NOW, THEREFORE, UST #05289 and Owner agree as follows:

- 1. Owner hereby grants UST #05289 and its employees, agents servants, contractors, and subcontractors (collectively "UST #05289" for this Agreement) permission to enter upon Owner's Proximal Property, as necessary, to conduct Geoprobe screening borings and install a groundwater monitoring well(s), for sampling of the groundwater as required by the SCDHEC.
2. The boring(s) will not limit or obstruct use of the property. Any waste materials generated by the installation activities will be properly handled and disposed of by UST #05289.
3. UST #05289 will restore the Property to similar surficial condition and stability as existed prior to the performance of the borings with the exception of a two foot by two foot concrete pad installed flush with the ground in a manner consistent with State requirements. UST #05289 will take reasonable measures to prevent soil erosion as a result of assessment activities and will repair the site disturbances resulting from assessment activities.
4. This Agreement shall become effective on the date of execution by the last executing Party.
5. Owner hereby agrees that all parties with an interest in the Property are signing this document as Owner.

OWNER NAME: Three Star Dev.

OWNER SIGNATURE: H. Preacher (Pres.)

DATE: 9/26/14

PHONE: 843-263-6724

EMAIL: \_\_\_\_\_

J14-080

**SITE ACCESS AGREEMENT**

This **SITE ACCESS AGREEMENT** ("Agreement") is entered into by CLAIRE LINDGREN TRUST "Owner," and **UST #05289**.

WHEREAS, **Owner** owns the property (the "Property") described as follows:  
Tax Map ID 062-22-02-001 located at 700 N Green Street, Ridgeland, Jasper County, SC

WHEREAS, **UST #05289** owned the nearby lot located at 11577 N Jacob Smart Blvd., Ridgeland, South Carolina proximal to the Property (the "Proximal Property");

WHEREAS, the **South Carolina Department of Health and Environmental Control, (SCDHEC)** is requiring **UST #05289** to conduct certain assessment activities relating to groundwater contamination present on the Proximal Property; and

WHEREAS, for **UST #05289** to conduct the testing relating to these assessment activities, **UST #05289** needs the permission of **owner** to enter onto the Proximal Property in order to conduct the assessment activities specified herein.

NOW, THEREFORE, **UST #05289** and **Owner** agree as follows:

1. Owner hereby grants **UST #05289** and its employees, agents servants, contractors, and subcontractors (collectively "**UST #05289**" for this Agreement) permission to enter upon Owner's Proximal Property, as necessary, to conduct Geoprobe screening borings and install a groundwater monitoring well(s), for sampling of the groundwater as required by the SCDHEC.
2. The boring(s) will not limit or obstruct use of the property. Any waste materials generated by the installation activities will be properly handled and disposed of by **UST #05289**.
3. **UST #05289** will restore the Property to similar surficial condition and stability as existed prior to the performance of the borings with the exception of a two foot by two foot concrete pad installed flush with the ground in a manner consistent with State requirements. **UST #05289** will take reasonable measures to prevent soil erosion as a result of assessment activities and will repair the site disturbances resulting from assessment activities.
4. This Agreement shall become effective on the date of execution by the last executing Party.
5. **Owner** hereby agrees that all parties with an interest in the Property are signing this document as **Owner**.

*ja*  
**UST #05289 SHALL INDENTIFY AND HOLD HARMLESS OWNER IN ALL RESPECTS IN CONNECTION WITH THE BORING(S).**

OWNER NAME: CLAIRE LINDGREN TRUST

OWNER SIGNATURE: 

DATE: 9/26/14

PHONE: 843-689-2226

EMAIL: chrislindgren@cs.com

J14-080

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
Encroachment Permit**

Permit No : 174039

Permit Decision Date : 10/3/2014

Expiration Date : 10/3/2015

Type

Permit : ENVIRONMENTAL

Location:

<u>District</u>	<u>Work County</u>	<u>Type</u>	<u>Route</u>	<u>Aux</u>	<u>Begin MP</u>	<u>End MP</u>
6	Jasper, SC	US	17	None	29.530	29.444
6	Jasper, SC	S-	32	None	0.122	0.146

Contact Information

Applicant: Petra-TechEnvironmental

Phone:

Contact: Kaye Burch

Address: 2435 East North Street ,STE  
1108-202

City: Greenville

State: SC

Zip: 29615

Comments

Site is: Burnette's Service Station at 11577 N. Jacob Smart Blvd.,  
Ridgeland, SC. Monitoring wells to be installed on North Green Street and  
N.Jacob Smart Blvd. See attached map for exact well locations.

Special Provisions:

0004 - SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.

0104 - ALL VALVES AND MANHOLES SHALL CONFORM TO THE EXISTING ELEVATION OF THE ROADWAY OR SHOULDER AND CONFORM TO THE ACCEPTED STANDARD. THE VALVES WILL BE LOCATED OUT OF THE PAVEMENT. THEY SHALL NOT BE PLACED IN A DITCH FLOW LINE.

0112 - ALL WATER METERS, AIR VALVES, ELECTRIC TRANSFORMERS, CATV CONNECTION BOXES, TELEPHONE PEDESTALS, AND/OR OTHER UTILITY/SPLICE BOXES SHALL BE PLACED AT THE RIGHT-OF-WAY LINE.

0302 - NO EXCAVATION SHALL BE LEFT OPEN ALONG HIGHWAY.

0312 - THE PERMITTEE SHALL HOLD THE DEPARTMENT HARMLESS FOR DAMAGES TO BOTH UPSTREAM AND DOWNSTREAM PROPERTIES.

0320 - ALL DEBRIS TO BE CLEARED FROM THE RIGHTS-OF-WAY WITHIN TEN (10) DAYS.

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WSW04

September 22, 2014

ST JAMES RIDGELAND LLC  
605 LAKELAND ROAD SOUTH  
SEVERNA PARK, MD 21146

Subject: Water Supply Well Survey and Request to Sample  
Properties located at 11332 N JACOB SMART BLVD in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-009  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well? 0 Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? UNK    When was the well installed? UNK  
What is the casing depth/screened interval of the well? UNK

6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

Email to: \_\_\_\_\_

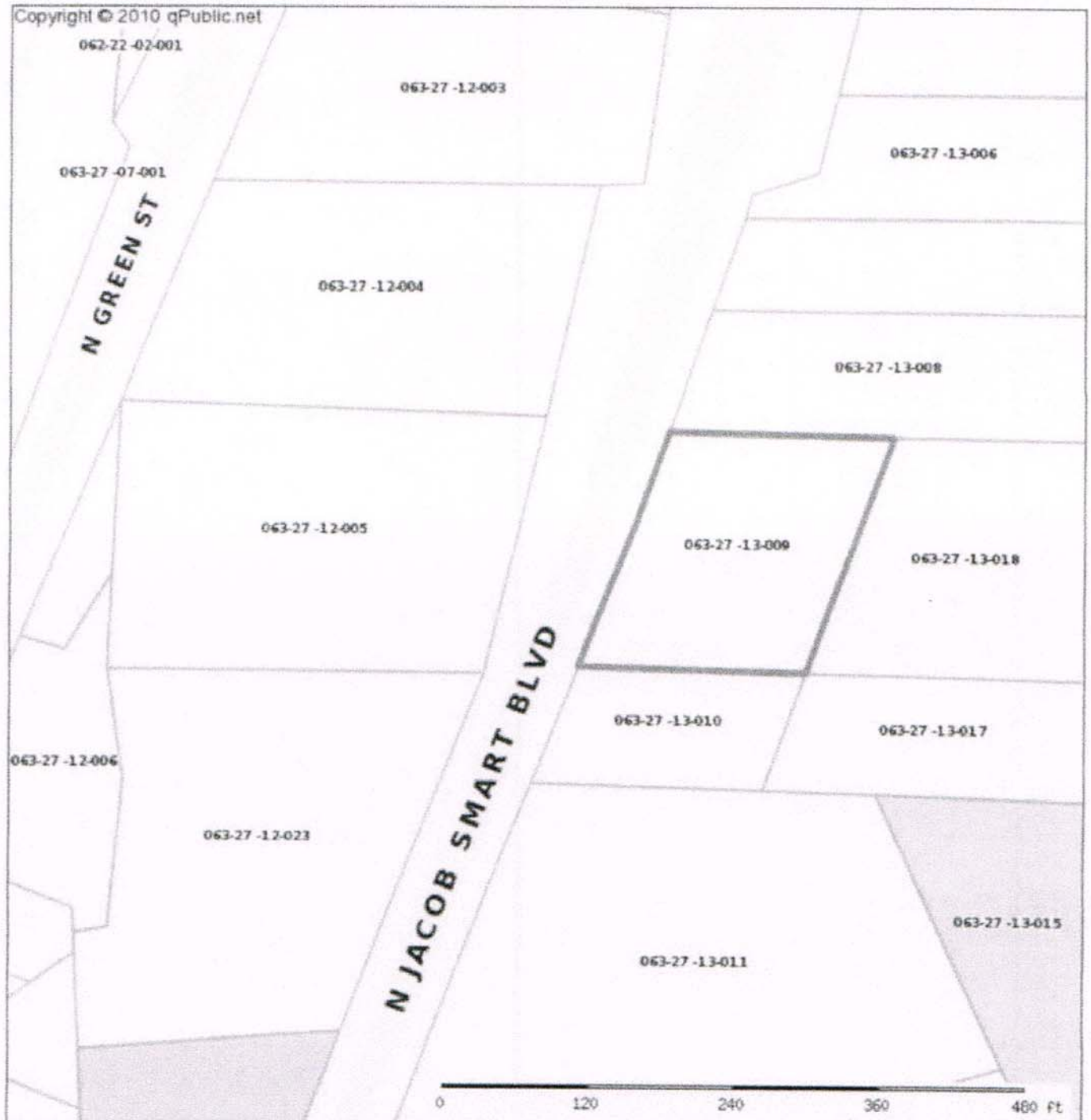
OWNER: [Signature]    DATE: 10.7.14

PHONE: 473 562 1064    EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

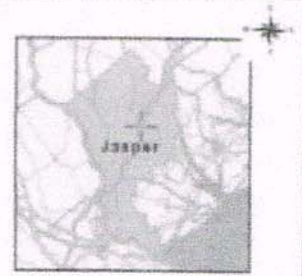
[Signature]  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist



St James Ridgeland LLC

Parcel: 063-27-13-009 Acres: 0.84

Name:	ST JAMES RIDGELAND LLC	Land Value:	\$48,700.00
Site:	11332 N JACOB SMART BLVD	Improvement Value:	\$228,700.00
Sale:	\$10 on 08-2007 Reason= Qual=U	Accessory Value:	\$0.00
Map:	605 LAKELAND ROAD SOUTH SEVERNA PARK MD 21146	Total Value:	\$0.00



Jasper 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.  
Date printed: 10/09/14 : 17:01:18

September 22, 2014

JASPER COUNTY PUBLIC WORKS  
PO BOX 1149  
RIDGELAND, SC 29936

Subject: Water Supply Well Survey and Request to Sample  
Properties located at 632 LIVE OAK ROAD in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 062-22 -01-003  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?     Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?     Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?     Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

\_\_\_\_\_ Mail to: \_\_\_\_\_

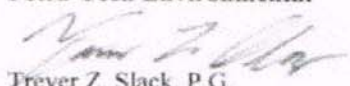
\_\_\_\_\_ Email to: \_\_\_\_\_

OWNER: DATE Terry DATE: \_\_\_\_\_

PHONE: 843-726-7740 EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trever Z. Slack, P.G.  
Principal Hydrogeologist

Beside shop



September 22, 2014

JASPER COUNTY  
PO BOX 1149  
RIDGELAND, SC 29936

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 062-22 -01-007  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?     Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?     Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?     Please list addresses:  
 \_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
 How deep is the well?    \_\_\_\_\_    When was the well installed?    \_\_\_\_\_  
 What is the casing depth/screened interval of the well?    \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

OWNER: Jasper County    DATE: \_\_\_\_\_  
PHONE: \_\_\_\_\_    EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.  
**Petra-Tech Environmental**

Trevor Z. Slack, P.G.  
Principal Hydrogeologist

Ball Field



September 22, 2014

JASPER COUNTY  
BOX BOX 1149  
RIDGELAND, SC 29936

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 062-22 -01-008  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?     Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?     Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?     Please list addresses:  


---
- 5) Please provide well construction details (as much is known):  
How deep is the well?    \_\_\_\_\_    When was the well installed?    \_\_\_\_\_  
What is the casing depth/screened interval of the well?    \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

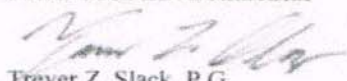
Mail to: \_\_\_\_\_

Email to: \_\_\_\_\_

OWNER: Jasper County    DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_    EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.  
**Petra-Tech Environmental**

  
Frever Z. Slack, P.G.  
Principal Hydrogeologist



September 19, 2014

FRED KEMMERLIN  
5218 BRADDOCK AVENUE  
NORTH CHARLESTON, SC 29405

Subject: Water Supply Well Survey and Request to Sample  
Property located at 1108 JUSTICE STREET in North Charleston, Charleston County, SC  
Tax Map ID / Parcel # 4700700280  
PTE Job No. J14-081-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #14929, Cooper Site, located at 1097 Bexley Street, North Charleston, Charleston County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:  
 \_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
 How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
 What is the casing depth/screened interval of the well? \_\_\_\_\_

6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

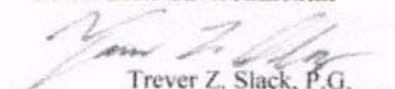
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trever Z. Slack, P.G.  
Principal Hydrogeologist

September 19, 2014

FRED KEMMERLIN  
5218 BRADDOCK AVENUE  
NORTH CHARLESTON, SC 29405

Subject: Water Supply Well Survey and Request to Sample  
Property located at 4405 SPRUILL AVENUE in North Charleston, Charleston County, SC  
Tax Map ID / Parcel # 4700700221  
PTE Job No. J14-081-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #14929, Cooper Site, located at 1097 Bexley Street, North Charleston, Charleston County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

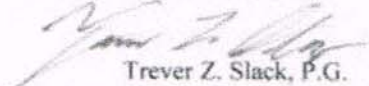
- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?     Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?     Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?     Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well?    \_\_\_\_\_    When was the well installed?    \_\_\_\_\_  
What is the casing depth/screened interval of the well?    \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:  
 Mail to: \_\_\_\_\_  
 Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trever Z. Slack, P.G.  
Principal Hydrogeologist



September 22, 2014

ST JAMES RIDGELAND LLC  
605 LAKELAND ROAD SOUTH  
SEVERNA PARK, MD 21146

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-007  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:  
 \_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
 How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
 What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

Email to: \_\_\_\_\_

OWNER: *[Signature]* DATE: \_\_\_\_\_  
PHONE: 4435621064 EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

*[Signature]*  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist





September 22, 2014

ST JAMES RIDGELAND LLC  
605 LAKELAND ROAD SOUTH  
SEVERNA PARK, MD 21146

Subject: Water Supply Well Survey and Request to Sample  
Properties located at N JACOB SMART BLVD in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-008  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.


**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?     Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?     Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?     Please list addresses:  


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- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

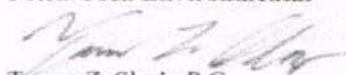
Email to: \_\_\_\_\_

OWNER:  DATE: \_\_\_\_\_

PHONE: 543 562 1064 EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trever Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

JOHN KALINOWSKY  
492 GREAT SWAMP ROAD  
RIDGELAND, SC 29936

Subject: Water Supply Well Survey and Request to Sample  
Properties located at 662 N JACOB SMART BLVD in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 062-22 -04-001  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - none
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:

- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_

6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

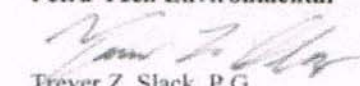
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

WALTER CZURA *Marlin Outdoor Adv. Ltd.*  
PO BOX 6567  
HILTON HEAD, SC 29938

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-006  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.

- 1) What is the source of drinking water for the subject property? *This is a vacant lot*  
 Public Water  Water Supply Well  Stream  Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes  No  
*No well here*  
If "No", please disregard the remaining questions and return survey.
- 3) What is the well typically used for?  Drinking  Irrigation  Livestock  Not in Use
- 4) How many residences are connected to the well?  Please list addresses:

- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_

6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_  
 Email to: \_\_\_\_\_

OWNER: *W. CZURA* DATE: \_\_\_\_\_  
PHONE: *843-785-5769 (o)* EMAIL: *MAROUTADV@HARGRAY.com*

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

*Frever Z. Slack*  
Frever Z. Slack, P.G.  
Principal Hydrogeologist

September 19, 2014

BANK OF NEW YORK  
BENJAMIN DAY  
715 S METROPOLITAN AVENUE  
OKLAHOMA CITY, OK 73108

**Return to Sender**

Subject: Water Supply Well Survey and Request to Sample  
Property located at 1072 BEXLEY STREET in North Charleston, Charleston County, SC  
Tax Map ID / Parcel # 4700800034  
PTE Job No. J14-081-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #14929, Cooper Site, located at 1097 Bexley Street, North Charleston, Charleston County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
\_\_\_ Public Water \_\_\_ Water Supply Well \_\_\_ Stream \_\_\_ Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property? \_\_\_ Yes \_\_\_ No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for? \_\_\_ Drinking \_\_\_ Irrigation \_\_\_ Livestock \_\_\_ Not in Use.
- 4) How many residences are connected to the well? \_\_\_ Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

\_\_\_ Mail to: \_\_\_\_\_

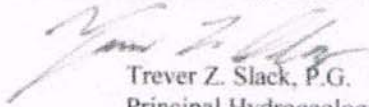
\_\_\_ Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

ERIC & DELIA CASKEY SURVIVORSHIP  
PO BOX 1513  
RIDGELAND, SC 29936

Subject: Water Supply Well Survey and Request to Sample  
Properties located at 11365 N JACOB SMART BLVD in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -12-004  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

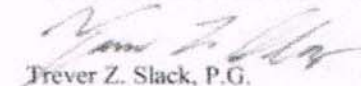
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trever Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

JR & ANGELINE POMPEY  
PO BOX 4069  
BURTON, SC 29903

**Return to Sender**

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-018  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:  
  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

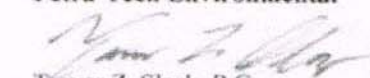
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Frever Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

JW FELL, JR.  
PO BOX 700  
SEABROOK, SC 29940

Subject: Water Supply Well Survey and Request to Sample  
Properties located at N JACOB SMART BLVD in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-001  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_

6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

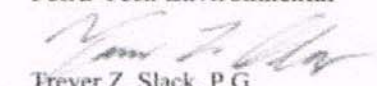
Mail to: \_\_\_\_\_  
 Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Frever Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

JW FELL, JR.  
PO BOX 700  
SEABROOK, SC 29940

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-019  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:

5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_

6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

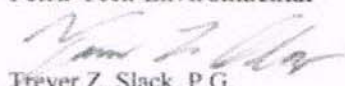
Mail to: \_\_\_\_\_  
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist



September 22, 2014

JW FELL, JR.  
PO BOX 700  
SEABROOK, SC 29940

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-003  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

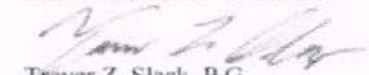
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

JW FELL, JR.  
PO BOX 700  
SEABROOK, SC 29940

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-002  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:

5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_

6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

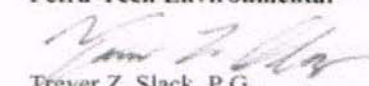
Mail to: PO Box 700 Seabrook SC 29940  
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

OAKRIDGE MOBILE HOME PARK  
PO BOX 23164  
HILTON HEAD, SC 29925

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 062-22 -02-001  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses:  
\_\_\_\_\_
- 5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

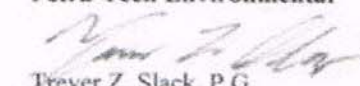
Mail to: \_\_\_\_\_

Email to: \_\_\_\_\_

OWNER: OAKRIDGE PARK, LLC    DATE: 10/2/14  
PHONE: 843-689-2226    EMAIL: christludgren@cs.com

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist

September 22, 2014

JOSEPH URBANEK  
128 BARTON BEND LANE  
COLUMBIA, SC 29206

WSW03

Subject: Water Supply Well Survey and Request to Sample  
Properties located at 11754 N JACOB SMART BLVD in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 062-00 -08-003  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water  Water Supply Well  Stream  Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes  No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking  Irrigation  Livestock  Not in Use
- 4) How many residences are connected to the well? 1 Please list addresses:

5) Please provide well construction details (as much is known):

How deep is the well? 384 ft. When was the well installed? 1998  
What is the casing depth/screened interval of the well? \_\_\_\_\_

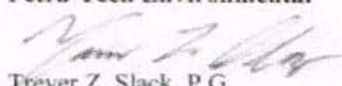
6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

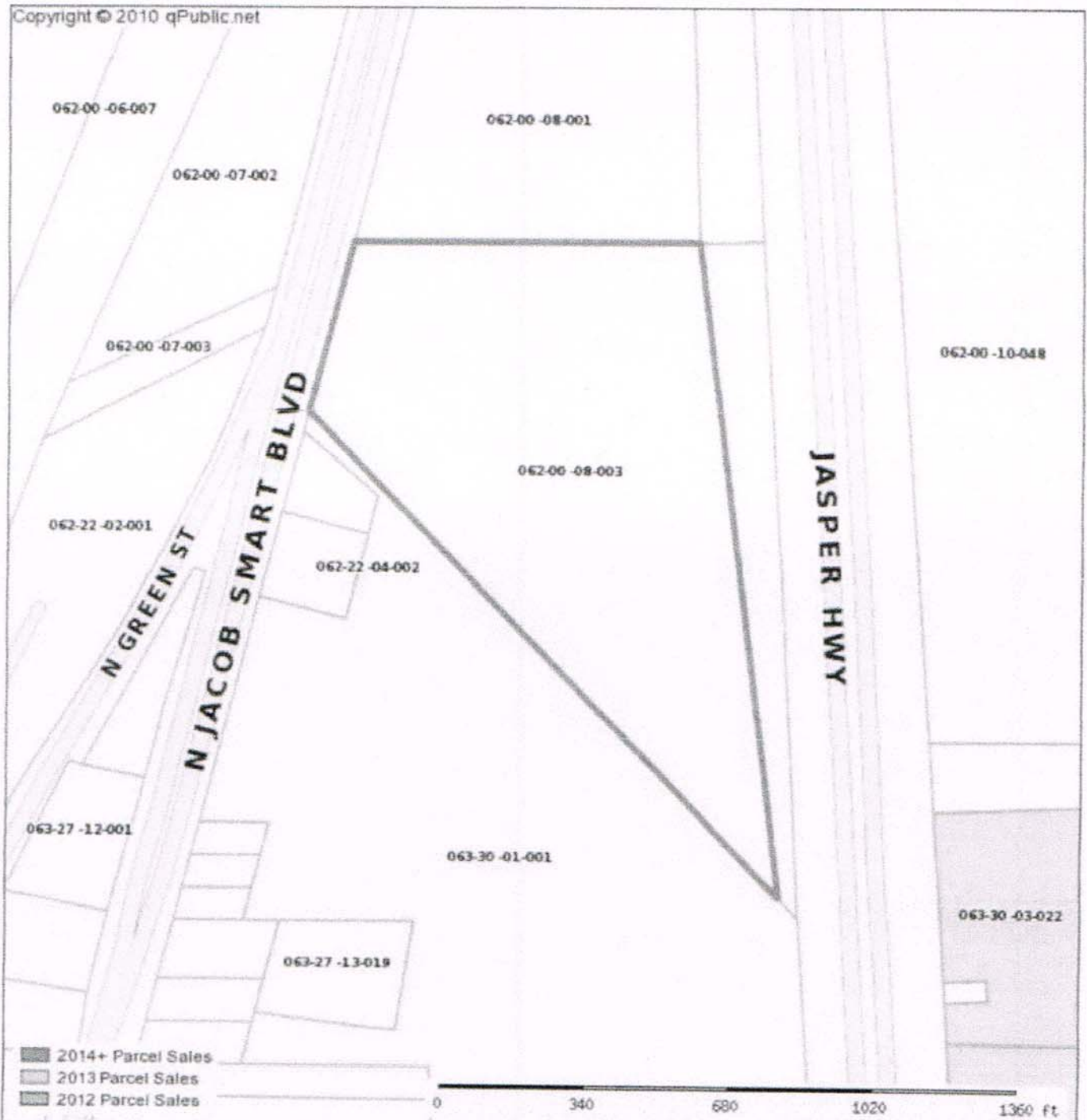
Mail to: 128 Barton Bend Lane Columbia, S.C.  
Email to: \_\_\_\_\_ 29206-3144

OWNER: Joseph UrbaneK DATE: Oct 2, 2014  
PHONE: 803-917-4171 EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist

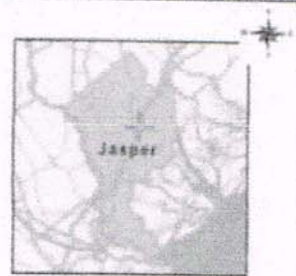


- 2014+ Parcel Sales
- 2013 Parcel Sales
- 2012 Parcel Sales

UrbaneK Parcel Map

Parcel: 062-00-08-003 Acres: 22.1

Name:	URBANEK JOSEPH L	Land Value:	\$1,033,200.00
Site:	11754 N JACOB SMART BLVD	Improvement Value:	\$466,800.00
Sale:	\$1,500,000 on 11-2011 Reason= Qual=Q	Accessory Value:	\$0.00
Mail:	128 BARTON BEND LANE COLUMBIA SC 29206	Total Value:	\$0.00



Jasper 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.  
Date printed: 10/08/14 : 09:29:45

Picture WSWC1  
1251 pm

September 22, 2014

JASPER COUNTY SHERIFF'S OFFICE  
PO BOX 1149  
RIDGELAND, SC 29936

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 062-00 -08-001  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
 Public Water     Water Supply Well     Stream     Other - \_\_\_\_\_
- 2) Is there a water supply well on the subject property?  Yes     No  
*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking     Irrigation     Livestock     Not in Use
- 4) How many residences are connected to the well?  Please list addresses: **WASH CARS**

---

- 5) Please provide well construction details (as much is known): **UNKNOWN**  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
What is the casing depth/screened interval of the well? \_\_\_\_\_
- 6) As part of the assessment, Petra-Tech Environmental, LLC can sample your water supply well free-of-charge for the presence of petroleum compounds. Please indicate how you would like to receive the results:

Mail to: \_\_\_\_\_

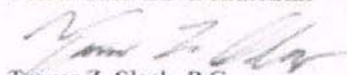
Email to: \_\_\_\_\_

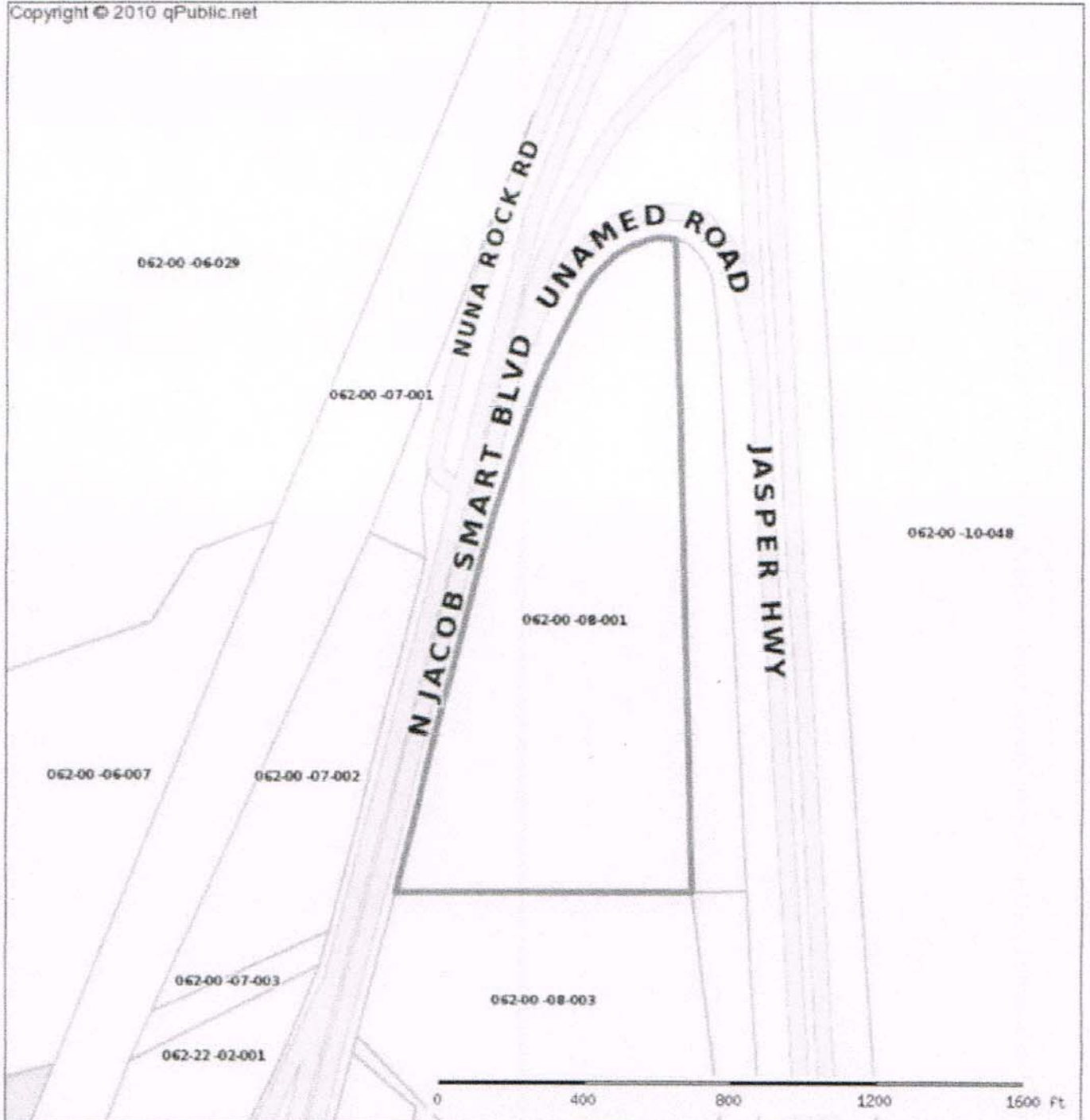
OWNER: **Jasper County**    DATE: \_\_\_\_\_

PHONE: \_\_\_\_\_    EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

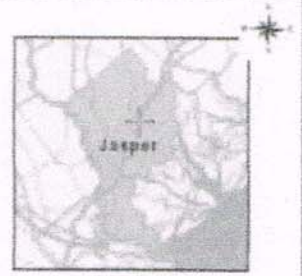
  
Trever Z. Slack, P.G.  
Principal Hydrogeologist



Jasper County Sheriff's Office

Parcel: 062-00-08-001 Acres: 23.33

Name:	JASPER COUNTY	Land Value:	\$378,400.00
Site:		Improvement Value:	\$3,130,000.00
Sale:	\$150,000 on 02-2000 Reason= Qual=Q	Accessory Value:	\$0.00
Mail:	P O BOX 1149 RIDGELAND SC 29936	Total Value:	\$0.00



Jasper 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.  
Date printed: 10/09/14 : 17:02:31

Could not locate

September 22, 2014

JW FELL, JR.  
PO BOX 700  
SEABROOK, SC 29940

Subject: Water Supply Well Survey and Request to Sample  
Properties located at <SEE TAX MAP ID> in Ridgeland, Jasper County, SC  
Tax Map ID / Parcel # 063-27 -13-004  
PTE Job No. J14-080-A

To Whom It May Concern:

Petra-Tech Environmental, LLC is currently conducting work on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) to assess the extent of a historical gasoline release from Underground Storage Tank (UST) Permit #05289, Burnette's Service Station, located 11577 N. Jacob Smart Blvd., Ridgeland, Jasper County, South Carolina. As part of the assessment, Petra-Tech Environmental, LLC is conducting a water supply well survey of properties located within a 1,000-foot radius of the UST system.

**Please complete information below to the best of your knowledge and return in the enclosed stamped envelope.**

- 1) What is the source of drinking water for the subject property?  
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*If "No", please disregard the remaining questions and return survey.*
- 3) What is the well typically used for?  Drinking  Irrigation  Livestock  Not in Use
- 4) How many residences are connected to the well?  Please list addresses:

5) Please provide well construction details (as much is known):  
How deep is the well? \_\_\_\_\_ When was the well installed? \_\_\_\_\_  
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Mail to: \_\_\_\_\_

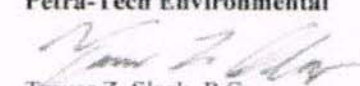
Email to: \_\_\_\_\_

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

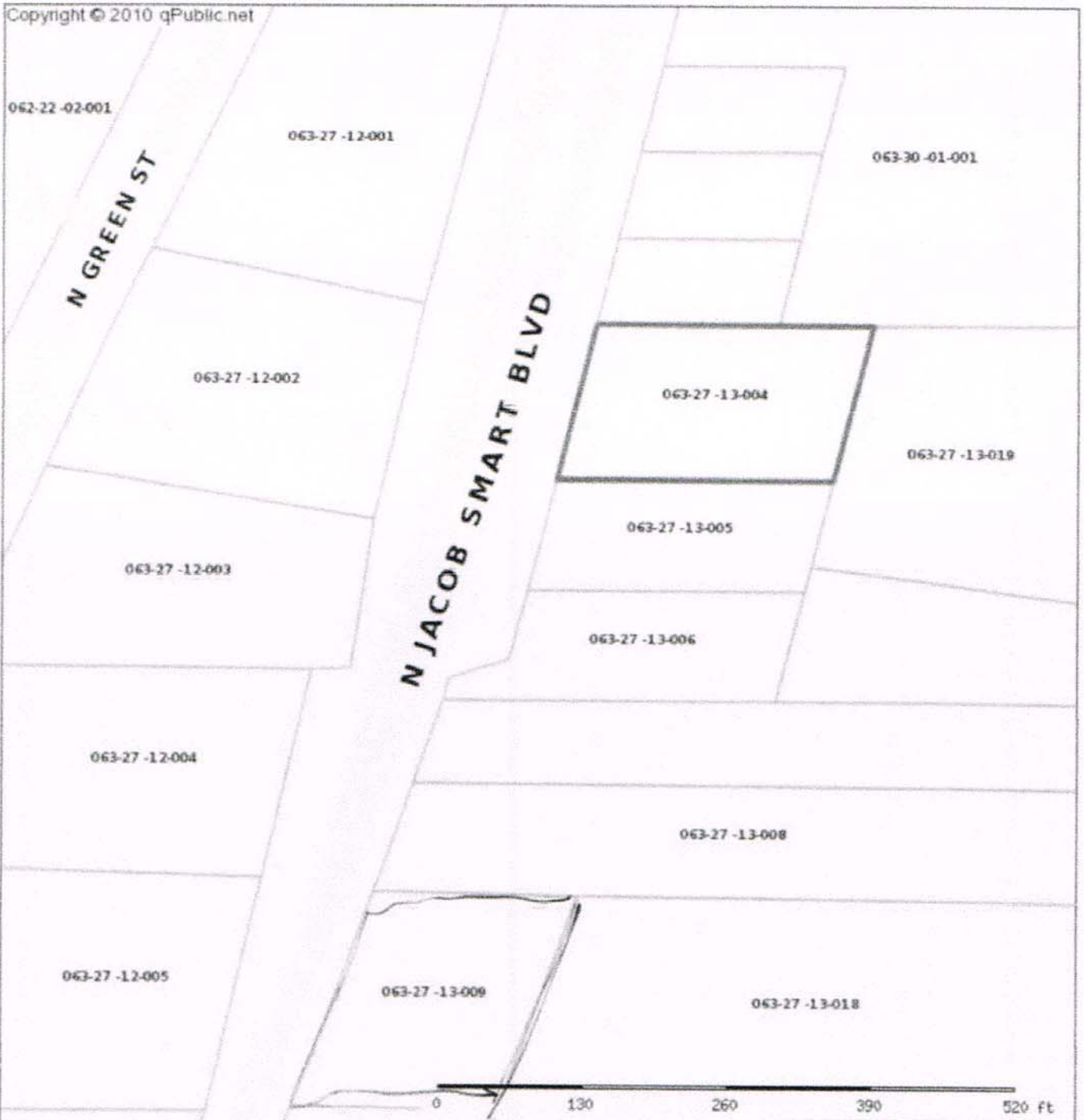
PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Thank you in advance for your help. Please do not hesitate to contact us at 864.678.0904 if you have any questions.

**Petra-Tech Environmental**

  
Trevor Z. Slack, P.G.  
Principal Hydrogeologist

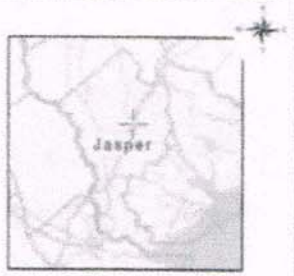




Fell - Well Parcel

Parcel: 063-27-13-004 Acres: 0.6

Name:	FELL J W JR	Land Value:	\$31,000.00
Site:		Improvement Value:	\$0.00
Owner:		Accessory Value:	\$0.00
Map:	P O BOX 700 SEABROOK SC 29940	Total Value:	\$0.00



Jasper 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.  
Date printed: 10/22/14 : 16:08:42

**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX K**

**QAPP CHECKLIST**

**Contractor Checklist**

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	✓		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?	✓		
9	Are the receptor survey results provided as required?	✓		
10	Has current use of the site and adjacent land been described?	✓		
11	Has the site-specific geology and hydrogeology been described?	✓		
12	Has the primary soil type been described?	✓		
13	Have field screening results been described?	✓		
14	Has a description of the soil sample collection and preservation been detailed?	✓		
15	Has the field screening methodology and procedure been detailed?	✓		
16	Has the monitoring well installation and development dates been provided?	✓		
17	Has the method of well development been detailed?	✓		
18	Has justification been provided for the locations of the monitoring wells?	✓		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	✓		
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?			✓
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?	✓		
27	Does the report include a brief discussion of the fate & transport models used?			✓

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?	✓		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?	✓		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?	✓		
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)	✓		
38	Has the site base map been provided with all required elements? (Figure 2)	✓		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)	✓		
41	Have the geologic cross-sections been provided? (Figure 6)	✓		
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)	✓		
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)	✓		
47	Have the soil boring/field screening logs been provided? (Appendix D)	✓		
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	✓		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)	✓		
50	Have the disposal manifests been provided? (Appendix G)	✓		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			✓
52	Has all fate and transport modeling been provided? (Appendix I)			✓
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)	✓		
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	✓		



**BURNETTE'S SERVICE STATION – UST PERMIT #05289  
TIER II ASSESSMENT**

**APPENDIX L**

**QAPP CONTRACTOR ADDENDUM**

August 20, 2014

SCDHEC - UST Management Division  
Assessment Section  
2600 Bull Street  
Columbia, SC 29201-1708

FILE COPY

Attention: Ms. Stephanie Briney

Subject: **Site Specific Work Plan – Tier II Assessment**  
**Revision Number: 0**  
**Burnette's Service Station**  
**11577 N. Jacob Smart Boulevard**  
**Ridgeland, Jasper County, SC**  
**SCDHEC UST Permit #05289**  
**PTE Job No. J14-080-A**

Dear Ms. Briney:

In accordance with Solicitation Number IFB-5400005780/3/20/13-EMW (Purchase Order #4600271461), Petra-Tech Environmental, LLC submits herein the completed Site Specific Work Plan for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) Site Specific Work Plan Directive dated July 24, 2014.

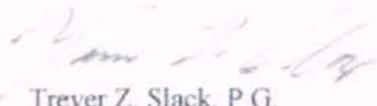
On August 9, 2014, Petra-Tech Environmental personnel performed a site visit to the subject site to locate existing groundwater monitoring wells and conduct a preliminary site reconnaissance. Groundwater at the site is approximately 3 feet below ground surface (i.e. groundwater was measured at 3.03 feet below top of casing in groundwater monitoring well 05289-MW01 on August 9, 2014).

The Site Specific Work Plan is contained herein.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

**Petra-Tech Environmental**

  
Trever Z. Slack, P.G.  
Principal Hydrogeologist  
Registered, South Carolina #25662





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

To: Minda Homosky (SCDHEC Project Manager)  
 From: Trever Slack (Contractor Project Manager)  
 Contractor: Petra-Tech Environmental, LLC UST Contractor Certification Number: UCC-436

Facility Name: Burnette's Service Station UST Permit #: 05289  
 Facility Address: 11577 N. Jacob Smart Boulevard, Ridgeland, South Carolina 29936  
 Responsible Party: Fate, Burnette Phone: 803-726-5098  
 RP Address: PO Box 1908, Ridgeland, SC 29936-0443  
 Property Owner (if different): H. A. Torres, Jr.  
 Property Owner Address: 721 North Highway 17, Ridgeland, South Carolina 29936  
 Current Use of Property: Currently utilized as automotive service and towing company.

**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	<u>2</u> Water Supply Wells	_____ Air	<u>2</u> Field Blank
<u>19</u> Monitoring Wells	<u>2</u> Surface Water	<u>2</u> Duplicate	<u>2</u> 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: 19 Estimated Footage: 7 (estimated) feet per point  
 # of deep points proposed: 4 Estimated Footage: 32 (estimated) feet per point  
 Field Screening Methodology: Direct Push with PID field screening and laboratory confirmation of select samples IAW SOP

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: 13 Estimated Footage: 12 (estimated) feet per point  
 # of deep wells: 5 Estimated Footage: 37 (estimated) feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Monitoring Well development method (consistent with SOP): Surging and pumping IAW SOP

Comments, if warranted:

Deep wells installed outside of the source area will be installed as Type II monitoring wells if it is determined by the on-site geologist that no confining layers are present.



UST Permit #: 05289

Facility Name: Burnette's Service Station

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 9/20/14

Field Work Completion: 11/20/14

Report Submittal: 12/20/14

# of Copies Provided to Property Owners: 5

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

Slug test will be completed in two shallow and one deep monitoring well. Slug tests are recommended over pump tests due to the elimination of requirements for petroleum impacted water disposal. Additionally, slug tests minimize the cone of depression associated with pump test drawdown, reducing the transport of petroleum compounds from shallow to deeper aquifer zones.

**Investigation Derived Waste Disposal**

Soil: 5 Tons Purge Water: 200 Gallons

Drilling Fluids: Gallons Free-Phase Product: Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

One existing groundwater monitoring well (05289 - MW01) and 18 newly installed monitoring wells will be sampled.

Receptors identified within 1,000-feet of the site or within 500-feet of the groundwater contaminant plume will be sampled during the Tier II Assessment. Two surface water features and two private water supply wells have been identified within 1,000-feet of the subject site during previous assessments.

**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 ACQAO? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_

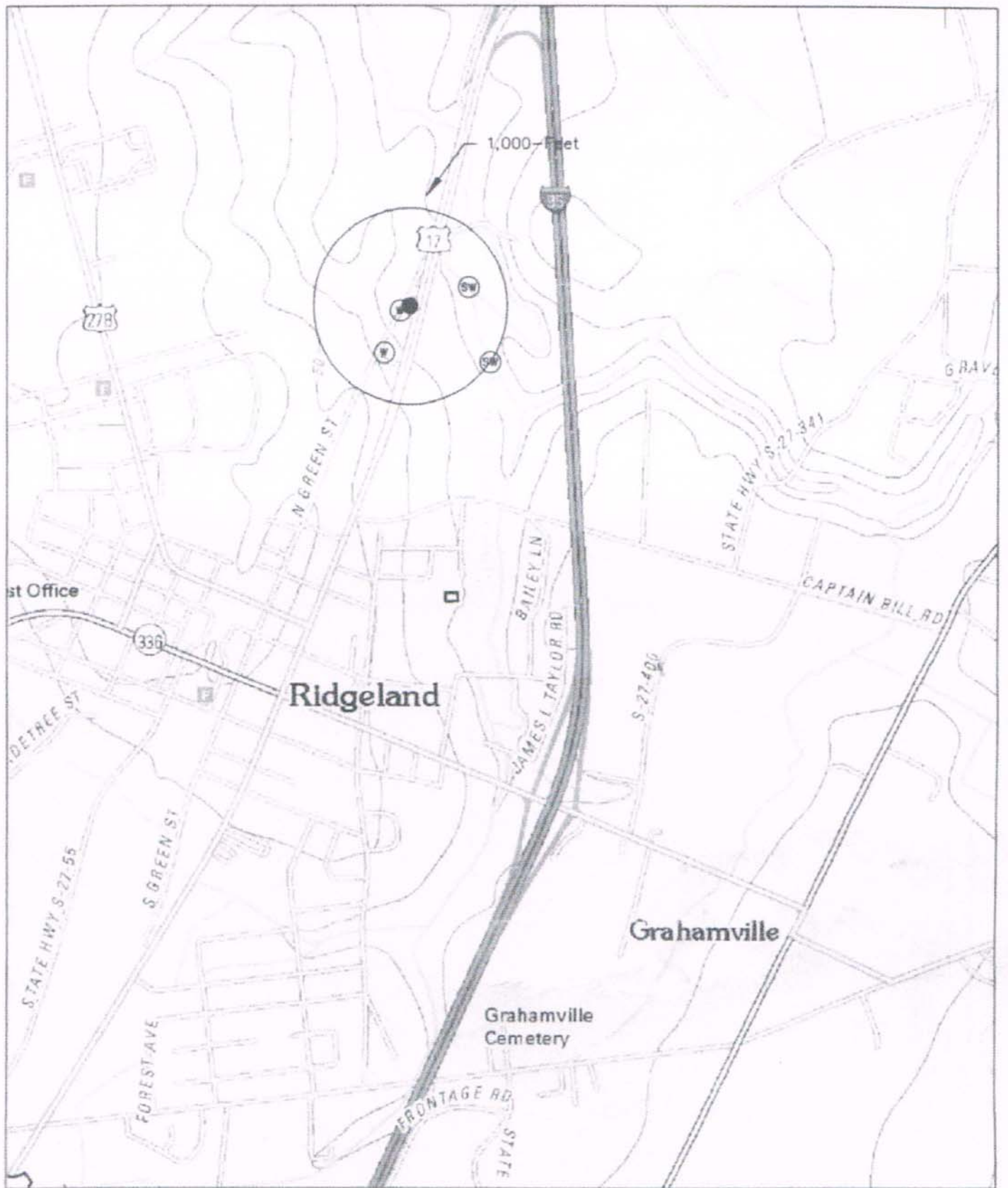
SCLLR Certification Number: \_\_\_\_\_

No Other variations from ACQAP. Please describe below.

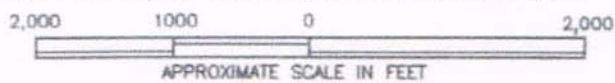
**Attachments**

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



REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



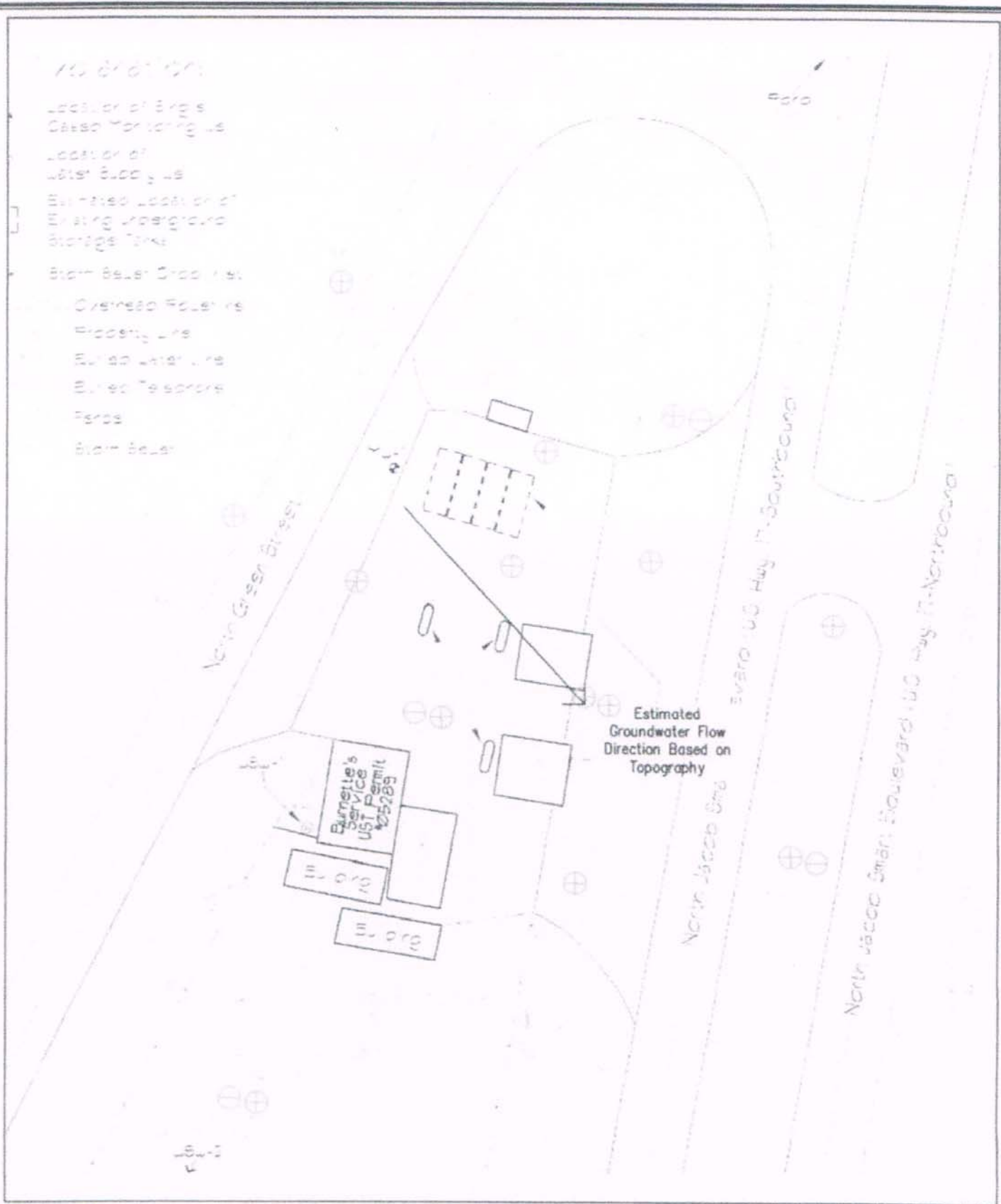
- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ W Private Water Supply Well



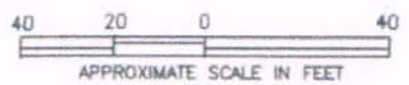
Title	Topographic Site Location Map	
Project	Bumette's Service Station (UST Permit #03289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	8/20/2014	
Job No.	J14-080-A	
		Figure No. 1



- 115 876 1001
- Location of 876's
- Caseb York 1001 10
- Location of
- Water 800 10 10
- Water 1001 1001 10
- Water 1001 1001 10
- Storage 1001 1001 10
- Water 1001 1001 10
- Overhead 1001 1001 10
- Freight 1001 1001 10
- Water 1001 1001 10
- Water 1001 1001 10
- Water 1001 1001 10
- Water 1001 1001 10
- Water 1001 1001 10



REFERENCE: Figure 2 Site Map by Midlands Environmental Consultants, Inc.



- ⊕ Existing Groundwater Monitoring Well (1)
- ⊕ Proposed Shallow Groundwater Monitoring Well (13 @ 12 feet)
- ⊕ Proposed Deep Groundwater Monitoring Well (5 @ 37 feet)

Title	Proposed Groundwater Monitoring Well Location Plan	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	8/20/2014	
Job No.	J14-080-A	
		Figure No. 3



**ASSESSMENT COMPONENT COST AGREEMENT**  
**SOUTH CAROLINA**  
 Department of Health and Environmental Control  
 Underground Storage Tank Management Division  
 State Underground Petroleum Environmental Response Bank Account  
 PO#4600271461

Facility Name Burnette's Service Station

UST Permit # 05289

Cost Agreement #:

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan Preparation</b>				
A1. Site-specific Work Plan	1	each	\$470.00	\$470.00
B1. Tax Map	1	each	\$600.00	\$600.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$780.00	\$0.00
<b>2. A1. Receptor Survey *</b>	1	each	\$755.00	\$755.00
<b>3. Survey (500 x 500 feet)</b>				
A1. Comprehensive Survey	1	each	\$1,405.00	\$1,405.00
<b>B. Subsurface Geophysical Survey</b>				
1B. < 10 meters below grade		each	\$200.00	\$0.00
2B. > 10 meters below grade		each	\$250.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$200.00	\$0.00
<b>4. Mob/Demob (Each)</b>				
A1. Equipment	2	each	\$985.00	\$1,970.00
B1. Personnel	5	each	\$955.00	\$4,775.00
C1. Adverse Terrain Vehicle to install wells		each	\$209.00	\$0.00
<b>5. A1. Soil Borings (hand auger)*</b>		feet	\$1.00	\$0.00
<b>6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*</b>				
A1. Standard	261	per foot	\$3.50	\$913.50
C1. Fractured Rock		per foot	\$2.00	\$0.00
<b>7. A1. Soil Leachability Model (Each)</b>		each	\$1.00	\$0.00
<b>8. Abandonment (per foot)*</b>				
A1. 2" diameter or less		per foot	\$0.50	\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$1.00	\$0.00
C1. Dug/Bored well (up to 6 foot diameter)		per foot	\$2.50	\$0.00
<b>9. Well Installation (per foot)*</b>				
A1. Water Table (hand augered)		per foot	\$1.00	\$0.00
B1. Water Table (drill rig)	341	per foot	\$16.25	\$5,541.25
C1. Telescoping/ Pit Cased		per foot	\$17.50	\$0.00
D1. Rock Drilling		per foot	\$13.00	\$0.00
E1. 2" or 4" Rock Coring		per foot	\$1.00	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$5.00	\$0.00
H1. Recovery Well (4 inch diameter)		each	\$11.00	\$0.00
II. Pushed Pre-packed screen (1.25 diameter)		each	\$5.00	\$0.00
J1. Rotasonic (2 inch diameter)		each	\$2.00	\$0.00
K. Re-develop Existing Well		each	\$0.50	\$0.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product *</b>				
A1. Groundwater Purge	19	per well	\$165.00	\$3,135.00
B1. Air or Vapors		per receptor	\$1.00	\$0.00
C1. Water Supply	2	per well/receptor	\$115.00	\$230.00
D1. Groundwater No Purge or Duplicate	4	samples	\$50.00	\$200.00
E1. Gauge Well only		per well	\$5.00	\$0.00
F1. Sample Below Product		well	\$5.00	\$0.00
G1. Pasive Diffusion Bag		each	\$1.00	\$0.00
H1. Field Blank	2	each	\$52.00	\$104.00
<b>11. Laboratory Analyses-Groundwater</b>				
A2. BTEX+Naphth.+ Oxyg's+ 1,2 DCA + Ethan	29	sample	\$117.00	\$3,393.00
AA1. Lead, Filtered		sample	\$12.00	\$0.00
B2. Rush EPA Method 8260B (All of item A.)		sample	\$142.00	\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		sample	\$14.00	\$0.00
D1. PAH's		sample	\$30.00	\$0.00
E1. Lead, Unfiltered	23	sample	\$25.00	\$575.00



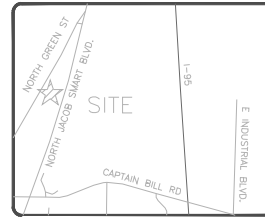
ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA

Department of Health and Environmental Control  
Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

F1. EDB by EPA 8011	27	sample	\$75.00	\$2,025.00
FF1. EDB by EPA Method 8011 Rush		sample	\$100.00	\$0.00
G1. 8 RCRA Metals		sample	\$25.00	\$0.00
H1. TPH (9070)		sample	\$15.00	\$0.00
II. pH		sample	\$5.00	\$0.00
J1. BOD		sample	\$9.00	\$0.00
PP. Ethanol		sample	\$0.10	\$0.00
<b>11. Analyses-Soil</b>				\$0.00
Q1. BTEX + Naphth.		sample	\$80.00	\$0.00
R1. PAH's		sample	\$45.00	\$0.00
S1. 8 RCRA Metals		sample	\$20.00	\$0.00
U1. TPH-DRO (3550B/8015B)		sample	\$15.00	\$0.00
V1. TPH- GRO (5030B/8015B)		sample	\$15.00	\$0.00
W1. Grain size/hydrometer	2	sample	\$55.00	\$110.00
X1. Total Organic Carbon		sample	\$14.00	\$0.00
<b>11. Analyses-Air</b>				
Y1. BTEX + Naphthalene		sample	\$50.00	\$0.00
<b>11. Analyses-Free Phase Product</b>				
Z1. Hydrocarbon Fuel Identification		sample	\$100.00	\$0.00
<b>12. Aquifer Characterization*</b>				
A1. Pumping Test		per hour	\$20.00	\$0.00
B1. Slug Test*	3	per test	\$255.00	\$765.00
C1. Fractured Rock		per test	\$35.00	\$0.00
<b>13. A1. Free Product Recovery Rate Test*</b>		each	\$35.00	\$0.00
<b>14. Fate/Transport Modeling</b>				
A1. Mathematical Model		each	\$5.00	\$0.00
B1. Computer Model		each	\$5.00	\$0.00
<b>15. Risk Evaluation</b>				
B1. Tier II Risk Evaluation		each	\$25.00	\$0.00
<b>16. A1. Subsequent Survey*</b>		each	\$95.00	\$0.00
<b>17. Disposal (gallons or tons)*</b>				
AA. Wastewater	200	gallon	\$0.25	\$50.00
BB. Free Product		gallon	\$0.10	\$0.00
C1. Soil Treatment/Disposal	5	ton	\$35.00	\$175.00
D1. Drilling fluids		gallon	\$0.10	\$0.00
<b>18. Miscellaneous (attach receipts)</b>				
Flourescence for Product		each	\$3.00	\$0.00
Video Camera down a well or borehole		each	\$1.00	\$0.00
		each	\$0.00	\$0.00
<b>25. Well Repair*</b>				
A1. Additional Copies of the Report Delivered	5	each	\$49.00	\$245.00
B1. Repair 2x2 MW pad		each	\$5.00	\$0.00
C1. Repair 4x4 MW pad		each	\$5.00	\$0.00
D1. Repair well vault		each	\$5.00	\$0.00
F1. Replace well cover bolts		each	\$1.00	\$0.00
H1. Replace/Repair stick-up		each	\$5.00	\$0.00
II. Convert Flush-mount to Stick-up		each	\$5.00	\$0.00
J1. Convert Stick-up to Flush-mount		each	\$5.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$1.00	\$0.00
<b>TOTAL</b>				<b>\$26,966.75</b>

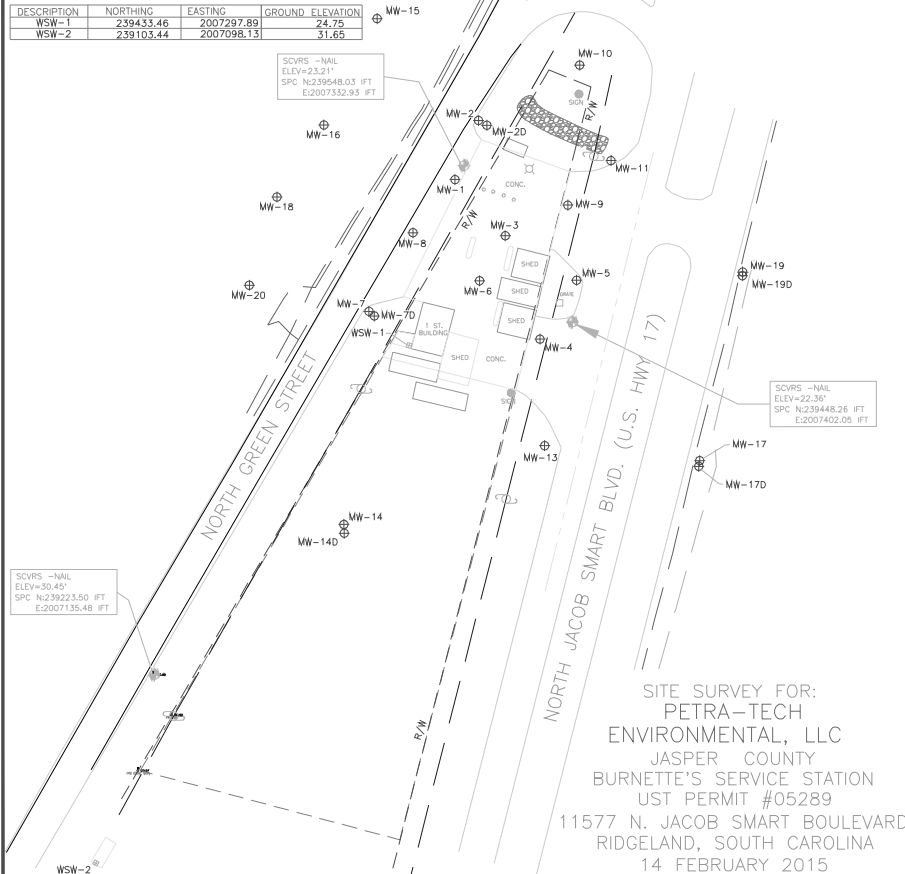
\*The appropriate mobilization cost can be added to complete these tasks, as necessary



VICINITY MAP

DESCRIPTION	NORTHING	EASTING	TOP OF CASING	GROUND ELEVATION
MW-1	239539.101	2007327.144	23.05	23.37
MW-2	239576.810	2007342.085	23.21	23.59
MW-2D	239573.733	2007347.432	22.79	23.13
MW-3	239503.303	2007359.218	23.49	23.64
MW-4	239437.391	2007381.315	22.83	23.06
MW-5	239474.941	2007404.638	22.14	22.50
MW-6	239474.586	2007342.757	23.73	24.14
MW-7	239455.078	2007272.767	23.94	24.32
MW-7D	239452.167	2007276.683	23.96	24.34
MW-8	239505.236	2007300.331	23.76	24.00
MW-9	239502.823	2007399.046	22.30	22.64
MW-10	239612.071	2007406.596	21.07	21.39
MW-11	239551.195	2007426.575	21.41	21.75
MW-15	239641.711	2007277.460	20.33	20.76
MW-16	239573.893	2007243.553	24.36	20.95
MW-17	239359.933	2007483.127	22.17	22.48
MW-17D	239356.326	2007482.518	22.28	22.42
MW-18	239528.014	2007213.637	24.44	21.49
MW-19	239480.180	2007510.553	22.14	22.38
MW-19D	239477.820	2007510.370	22.18	22.41
MW-20	239471.733	2007195.962	21.94	22.16
MW-13	239369.461	2007384.302	21.96	22.29
MW-14	239319.248	2007256.286	24.40	25.01
MW-14D	239313.648	2007256.492	24.56	24.87

DESCRIPTION	NORTHING	EASTING	GROUND ELEVATION
WSW-1	239433.46	2007297.89	24.75
WSW-2	239103.44	2007098.13	31.65



SCVRS - NAIL  
ELEV=30.45'  
SPC N:239223.50 IFT  
E:2007135.48 IFT

SCVRS - NAIL  
ELEV=23.21'  
SPC N:239548.03 IFT  
E:2007332.93 IFT

SCVRS - NAIL  
ELEV=22.36'  
SPC N:239448.26 IFT  
E:2007402.05 IFT

**LEGEND**

- ◻ SURFACE WATER
- ⊕ SITE WELL
- 1/2" REBAR FOUND
- 1/2" REBAR SET
- ⊙ PK NAIL FOUND IN ROAD
- PK NAIL SET IN ROAD
- ⊕ POWER POLE
- ⊕ LIGHT POLE
- ⊕ SANITARY SEWER MH

**NOTES:**

ALL PINS ARE 1/2" REBAR OR PK NAILS IN ROAD, UNLESS OTHERWISE NOTED.

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL UNDERGROUND UTILITIES ARE NOT SHOWN AND THEIR LOCATIONS ARE UNKNOWN TO ME.

THIS PROPERTY IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIONS OF RECORD AND NOT OF RECORD.

THIS PLAT FOR LOCATION PURPOSES ONLY. NO LAND SURVEY WAS DONE AT THIS TIME.

SITE SURVEY FOR:  
PETRA-TECH  
ENVIRONMENTAL, LLC  
JASPER COUNTY  
BURNETTE'S SERVICE STATION  
UST PERMIT #05289  
11577 N. JACOB SMART BOULEVARD  
RIDGELAND, SOUTH CAROLINA  
14 FEBRUARY 2015



SOUTHER  
LAND SURVEYING

10253 ASHEVILLE HWY.  
INMAN, SC 29349  
864-473-1240

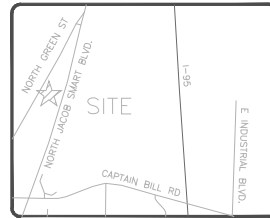
DESCRIPTION	NORTHING	EASTING	TOP OF CASING	GROUND ELEVATION
MW-1	239539.101	2007327.144	23.05	23.37
MW-2	239576.810	2007342.085	23.21	23.59
MW-2D	239573.733	2007347.432	22.79	23.13
MW-3	239503.303	2007359.218	23.49	23.64
MW-4	239457.461	2007381.115	22.95	23.26
MW-5	239474.941	2007404.638	22.14	22.50
MW-6	239474.586	2007342.757	23.73	24.14
MW-7	239455.078	2007272.267	23.94	24.32
MW-7D	239452.167	2007275.683	23.96	24.34
MW-8	239506.236	2007300.331	23.76	24.00
MW-9	239522.823	2007399.046	22.30	22.64
MW-10	239612.071	2007406.596	21.07	21.39
MW-11	239551.195	2007426.575	21.41	21.75
MW-15	239641.711	2007277.460	20.33	20.76
MW-16	239513.893	2007443.553	24.35	20.95
MW-17	239359.933	2007483.127	22.17	22.48
MW-17D	239356.326	2007482.518	22.28	22.42
MW-18	239525.014	2007133.637	24.44	21.49
MW-19	239480.180	2007510.553	22.14	22.38
MW-19D	239477.820	2007510.370	22.18	22.41
MW-20	239471.733	2007195.952	21.94	22.16
MW-13	239369.461	2007384.302	21.96	22.29
MW-14	239319.248	2007256.286	24.40	25.01
MW-14D	239313.648	2007256.492	24.55	24.87

DESCRIPTION	NORTHING	EASTING	GROUND ELEVATION	
WSW-1	239433.46	2007297.89	24.75	MW-15
WSW-2	239103.44	2007098.13	31.65	

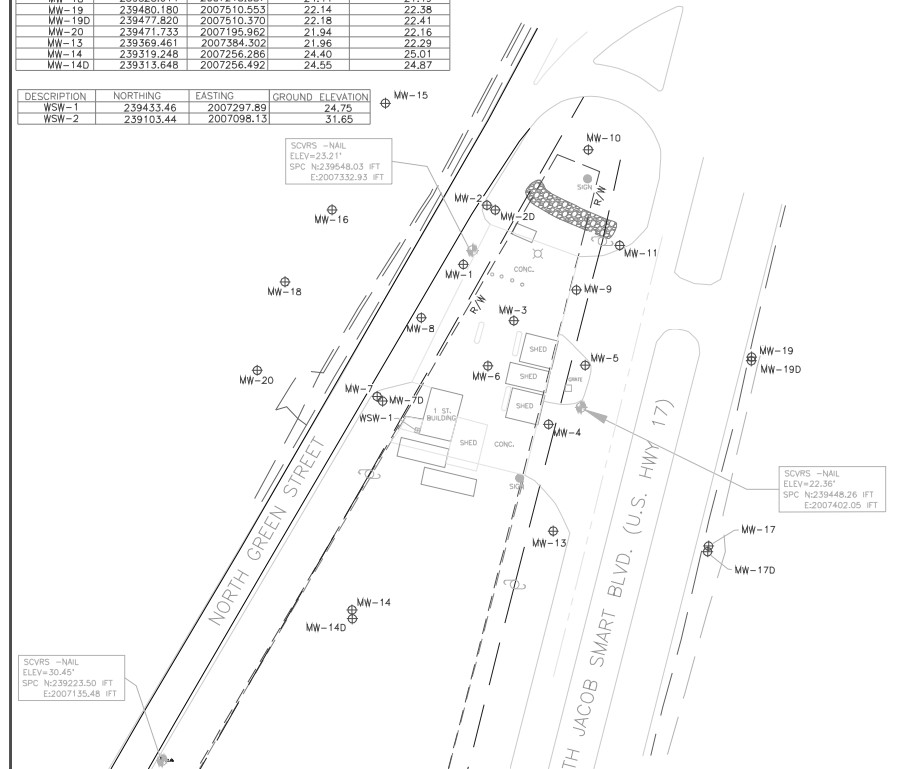
SCVRS - NAIL  
ELEV=23.21'  
SPC N239548.03 IFT  
E:2007332.93 IFT

SCVRS - NAIL  
ELEV=22.36'  
SPC N239448.26 IFT  
E:2007402.05 IFT

SCVRS - NAIL  
ELEV=30.45'  
SPC N239223.50 IFT  
E:2007135.48 IFT

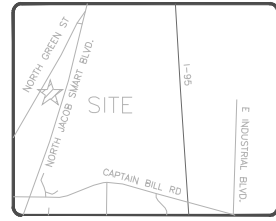


VICINITY MAP



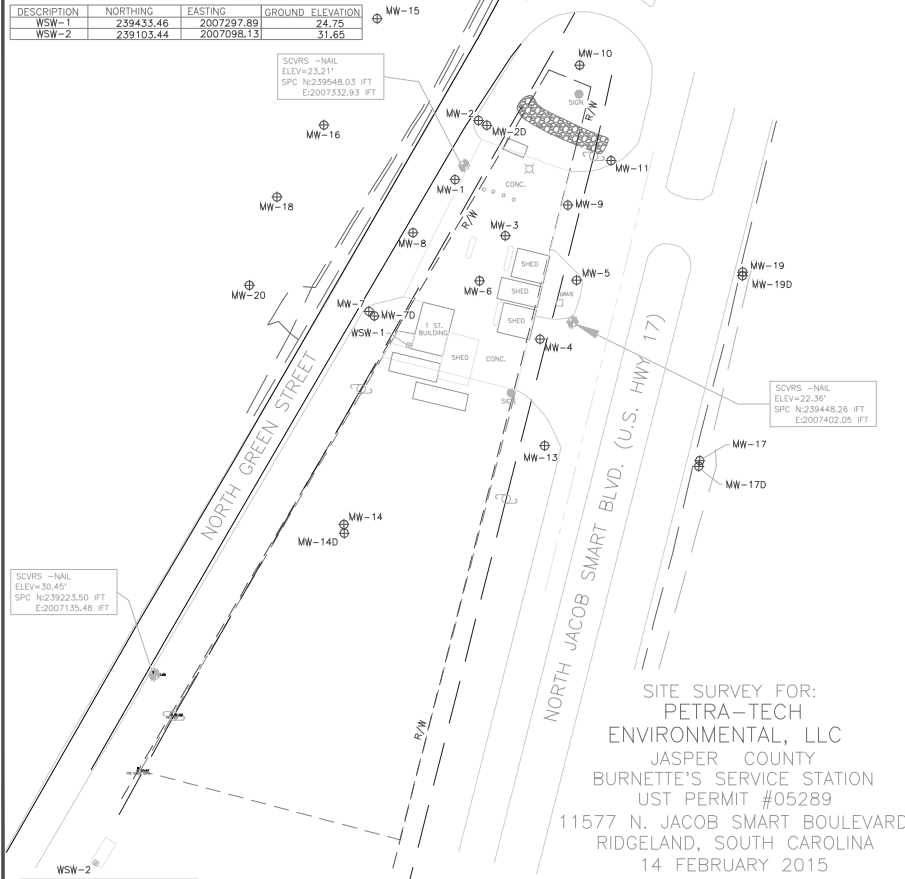






DESCRIPTION	NORTHING	EASTING	TOP OF CASING	GROUND ELEVATION
MW-1	239539.101	2007327.144	23.05	23.37
MW-2	239576.810	2007342.085	23.21	23.59
MW-2D	239573.733	2007347.432	22.79	23.13
MW-3	239503.303	2007359.218	23.49	23.64
MW-4	239437.391	2007381.315	22.83	23.06
MW-5	239474.941	2007404.638	22.14	22.50
MW-6	239474.586	2007342.757	23.73	24.14
MW-7	239455.078	2007272.767	23.94	24.32
MW-7D	239452.167	2007276.683	23.96	24.34
MW-8	239505.236	2007300.331	23.76	24.00
MW-9	239502.823	2007399.046	22.30	22.64
MW-10	239612.071	2007406.596	21.07	21.39
MW-11	239551.195	2007426.575	21.41	21.75
MW-15	239641.711	2007277.460	20.33	20.76
MW-16	239573.893	2007243.553	24.36	20.95
MW-17	239359.933	2007483.127	22.17	22.48
MW-17D	239356.326	2007482.518	22.28	22.42
MW-18	239528.014	2007213.637	24.44	21.49
MW-19	239480.180	2007510.553	22.14	22.38
MW-19D	239477.820	2007510.370	22.18	22.41
MW-20	239471.733	2007195.962	21.94	22.16
MW-13	239369.461	2007384.302	21.96	22.29
MW-14	239319.248	2007256.286	24.40	25.01
MW-14D	239313.648	2007256.492	24.56	24.87

DESCRIPTION	NORTHING	EASTING	GROUND ELEVATION
WSW-1	239433.46	2007297.89	24.75
WSW-2	239103.44	2007098.13	31.65



SCVRS - NAIL  
ELEV=30.45'  
SPC N:239223.50 IFT  
E:2007135.48 IFT

SCVRS - NAIL  
ELEV=23.21'  
SPC N:239548.03 IFT  
E:2007332.93 IFT

SCVRS - NAIL  
ELEV=22.36'  
SPC N:239448.26 IFT  
E:2007402.05 IFT

LEGEND

- SURFACE WATER
- SITE WELL
- 1/2" REBAR FOUND
- 1/2" REBAR SET
- PK NAIL FOUND IN ROAD
- PK NAIL SET IN ROAD
- POWER POLE
- LIGHT POLE
- SANITARY SEWER MH

NOTES:

ALL PINS ARE 1/2" REBAR OR PK NAILS IN ROAD, UNLESS OTHERWISE NOTED.

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL UNDERGROUND UTILITIES ARE NOT SHOWN AND THEIR LOCATIONS ARE UNKNOWN TO ME.

THIS PROPERTY IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIONS OF RECORD AND NOT OF RECORD.

THIS PLAT FOR LOCATION PURPOSES ONLY. NO LAND SURVEY WAS DONE AT THIS TIME.

SITE SURVEY FOR:  
PETRA-TECH  
ENVIRONMENTAL, LLC  
JASPER COUNTY  
BURNETTE'S SERVICE STATION  
UST PERMIT #05289  
11577 N. JACOB SMART BOULEVARD  
RIDGELAND, SOUTH CAROLINA  
14 FEBRUARY 2015



SOUTHER  
LAND SURVEYING

10253 ASHEVILLE HWY.  
INMAN, SC 29349  
864-473-1240

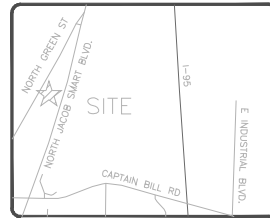
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MW-2D	239573.733	2007347.432	22.79	23.13
MW-3	239503.303	2007359.218	23.49	23.64
MW-4	239457.461	2007381.115	22.95	23.26
MW-5	239474.941	2007404.638	22.14	22.50
MW-6	239474.586	2007342.757	23.73	24.14
MW-7	239455.078	2007272.267	23.94	24.32
MW-7D	239452.167	2007275.683	23.96	24.34
MW-8	239506.236	2007300.331	23.76	24.00
MW-9	239522.823	2007399.046	22.30	22.64
MW-10	239612.071	2007406.596	21.07	21.39
MW-11	239551.195	2007426.675	21.41	21.75
MW-15	239641.711	2007277.460	20.33	20.76
MW-16	239513.893	2007443.553	24.35	20.95
MW-17	239359.933	2007483.127	22.17	22.48
MW-17D	239356.326	2007482.518	22.28	22.42
MW-18	239525.014	2007133.637	24.44	21.49
MW-19	239480.180	2007510.553	22.14	22.38
MW-19D	239477.820	2007510.370	22.18	22.41
MW-20	239471.733	2007195.952	21.94	22.16
MW-13	239369.461	2007384.302	21.96	22.29
MW-14	239319.248	2007256.286	24.40	25.01
MW-14D	239313.648	2007256.492	24.55	24.87

DESCRIPTION	NORTHING	EASTING	GROUND ELEVATION	
WSW-1	239433.46	2007297.89	24.75	MW-15
WSW-2	239103.44	2007098.13	31.65	

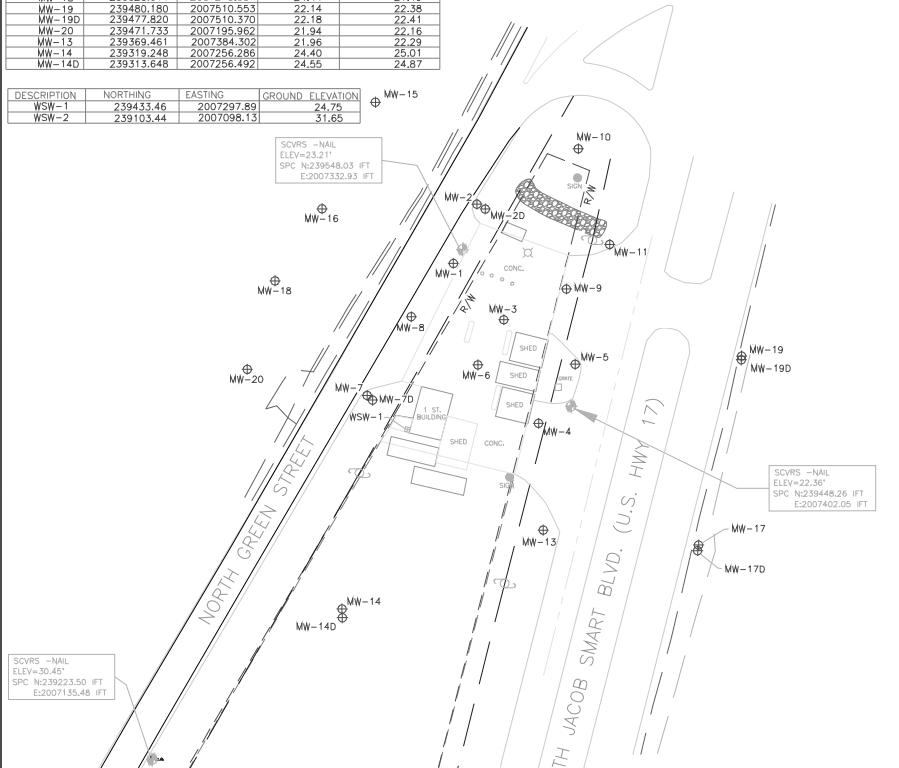
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SPC N239448.26 IFT  
E:2007402.05 IFT

SCVRS - NAIL  
ELEV=30.45'  
SPC N239223.50 IFT  
E:2007135.48 IFT



VICINITY MAP









Geological Survey, 2011 (Contour Interval – 10 feet); Figure 1

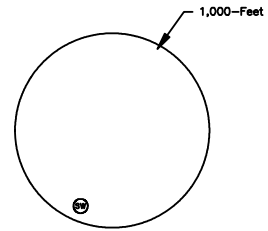
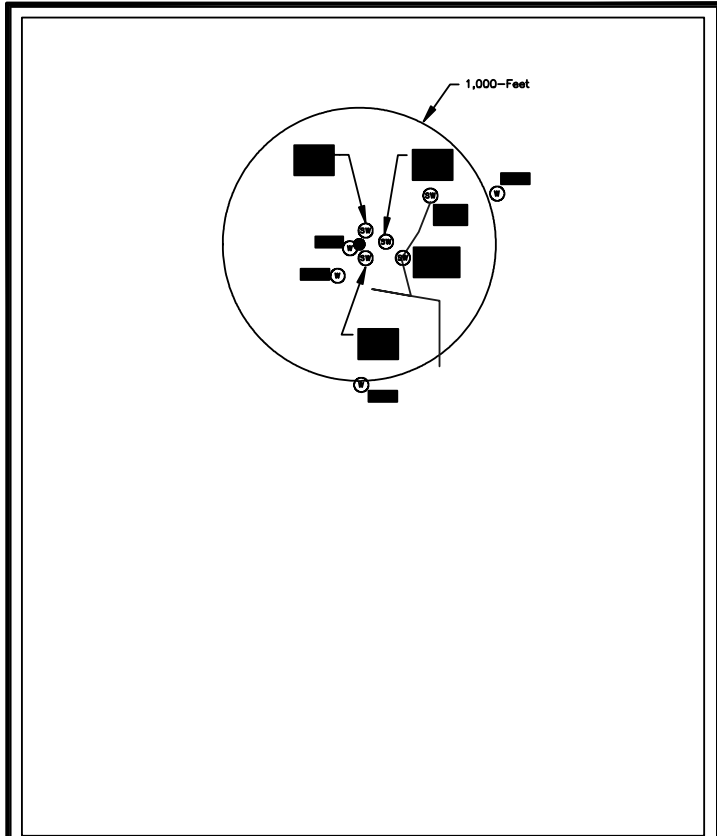
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Date	08/20/2014	Figure No. 1
REV.	02/24/2015	
Job No.	J14-080-A	



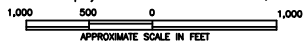








REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ W Private Water Supply Well

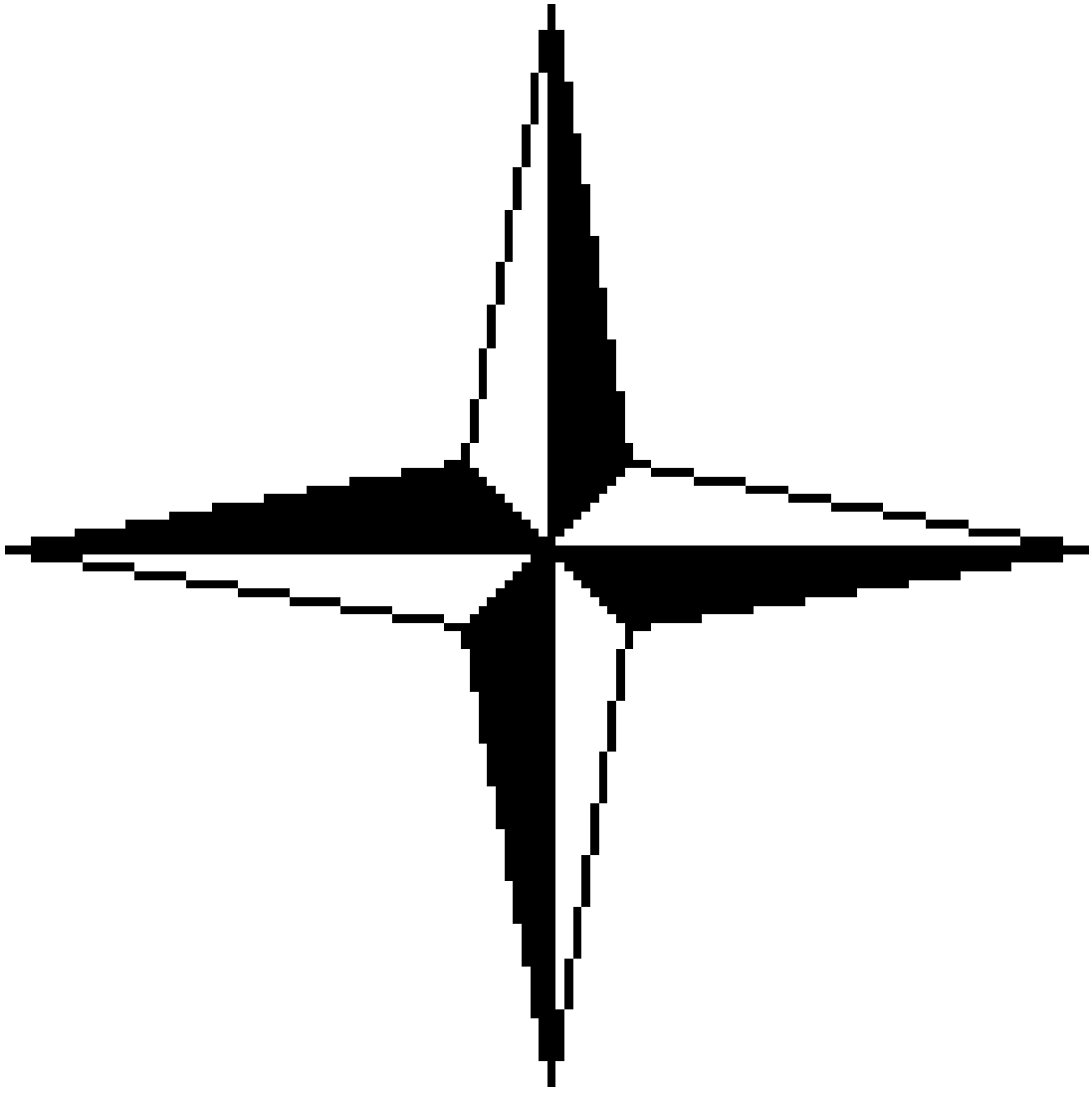
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Date	06/28/2014	
REV.	02/24/2014	Figure No.
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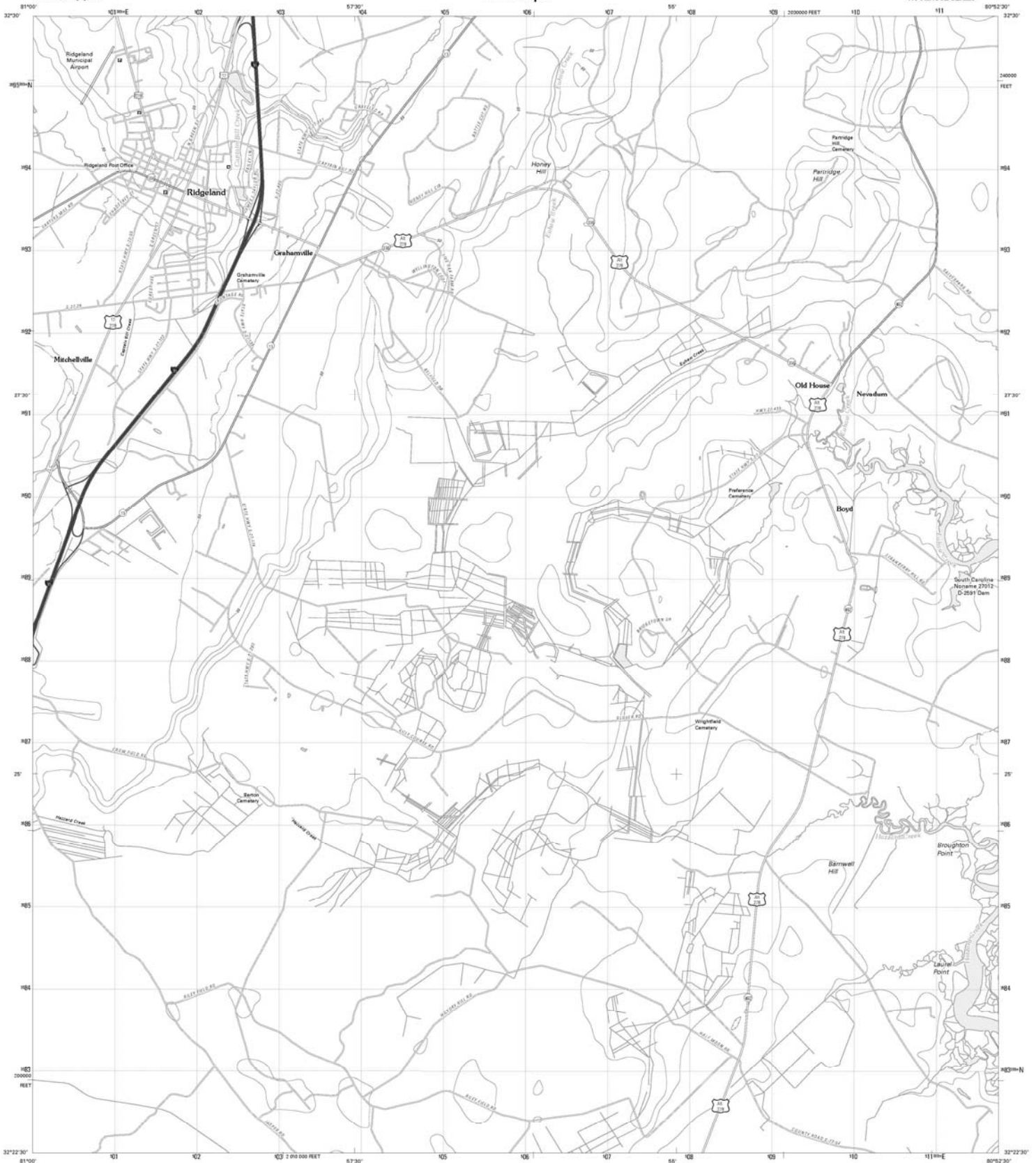
**petra\_tech**

ENVIRONMENTAL, LLC

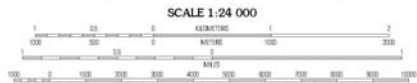
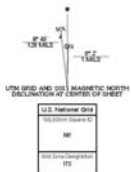
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Produced by the United States Geological Survey  
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World Geodetic System of 1984 (WGS84) Projection and  
1 000 meter grid. Universal Transverse Mercator, Zone 17S  
10 000-foot scale. South Carolina Coordinate System of 1983



CONTOUR INTERVAL 10 FEET  
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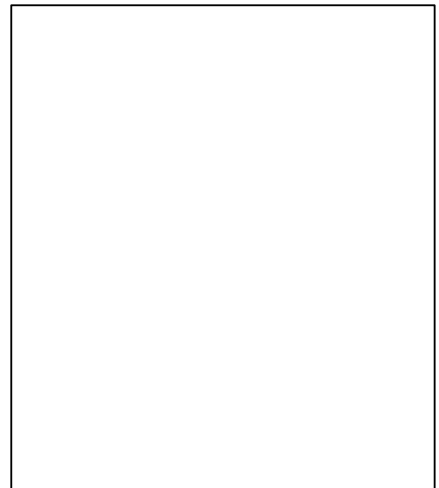
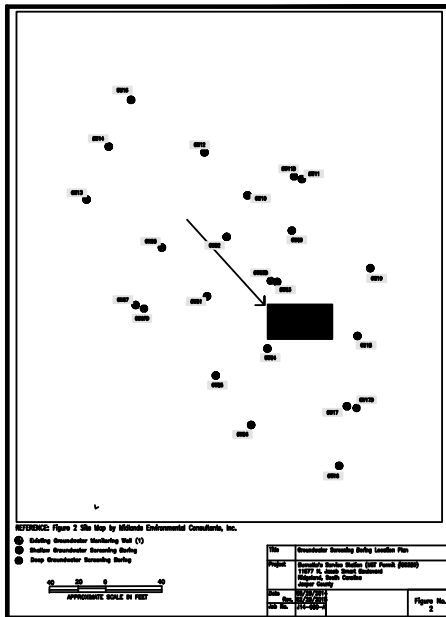


ROAD CLASSIFICATION

Interstate Route	State Route
US Route	Local Road
Ramp	4WD
Historic Route	US Route
	State Route

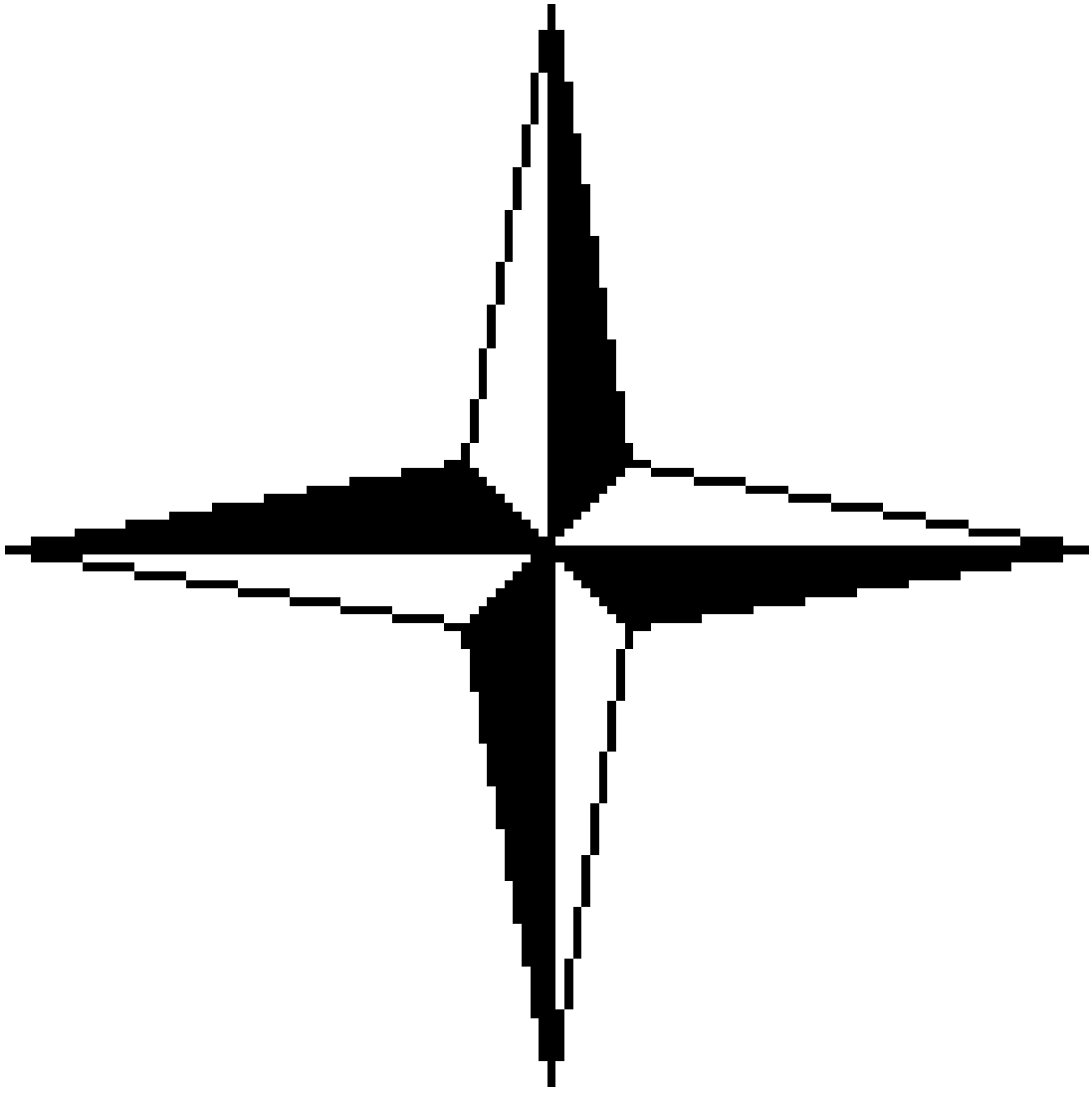








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**petra\_tech**

ENVIRONMENTAL, LLC

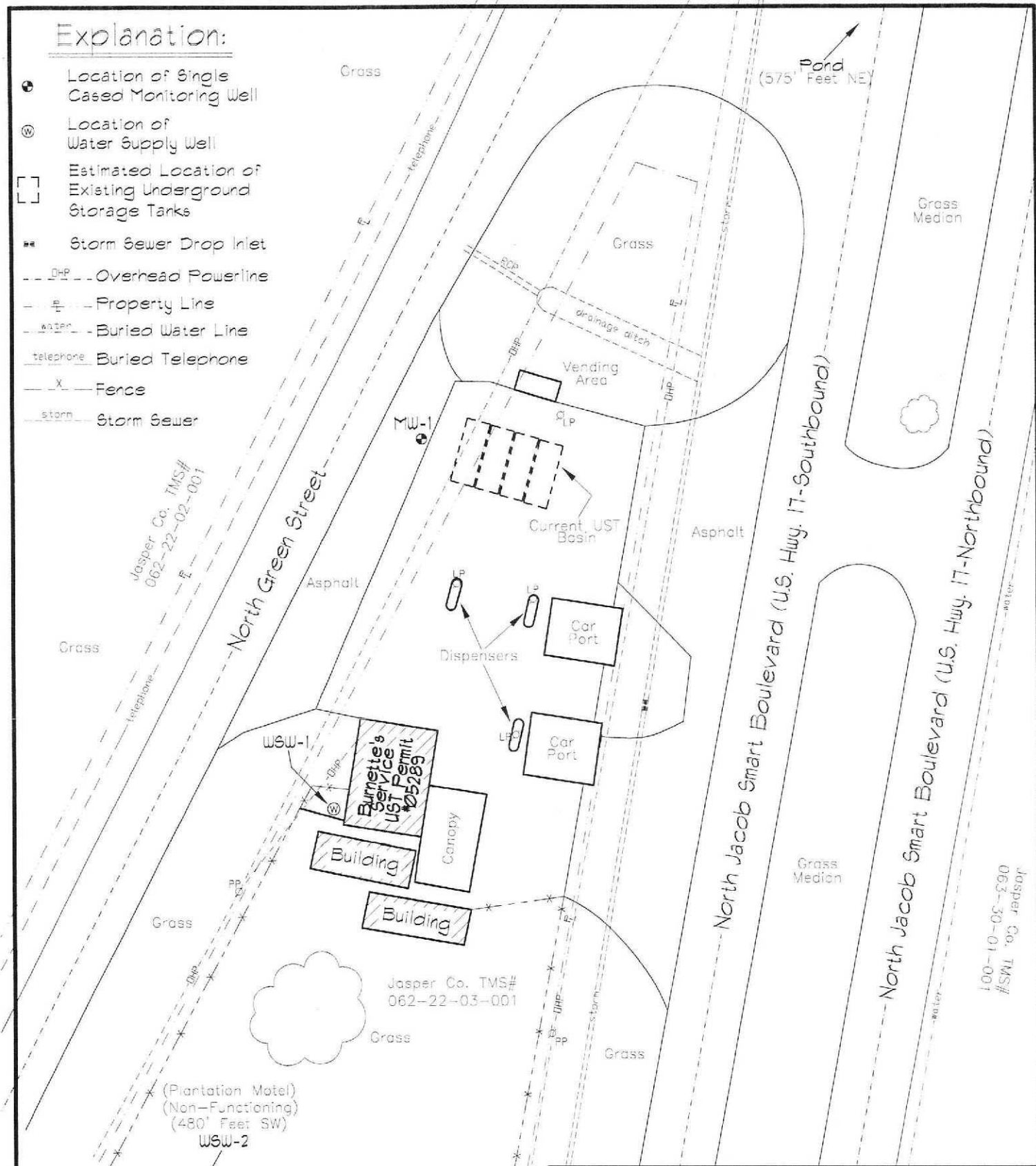
ENGINEERS & CONSULTANTS



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# Explanation:

- Location of Single Cased Monitoring Well
- ⊗ Location of Water Supply Well
- [ ] Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet
- OHP --- Overhead Powerline
- P --- Property Line
- water --- Buried Water Line
- telephone --- Buried Telephone
- X --- Fence
- storm --- Storm Sewer



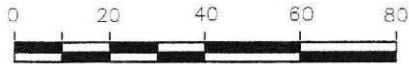
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062-22-02-001

Jasper Co. TMS#  
062-22-03-001

Jasper Co. TMS#  
063-30-01-001

(Plantation Motel)  
(Non-Functioning)  
(480' Feet SW)

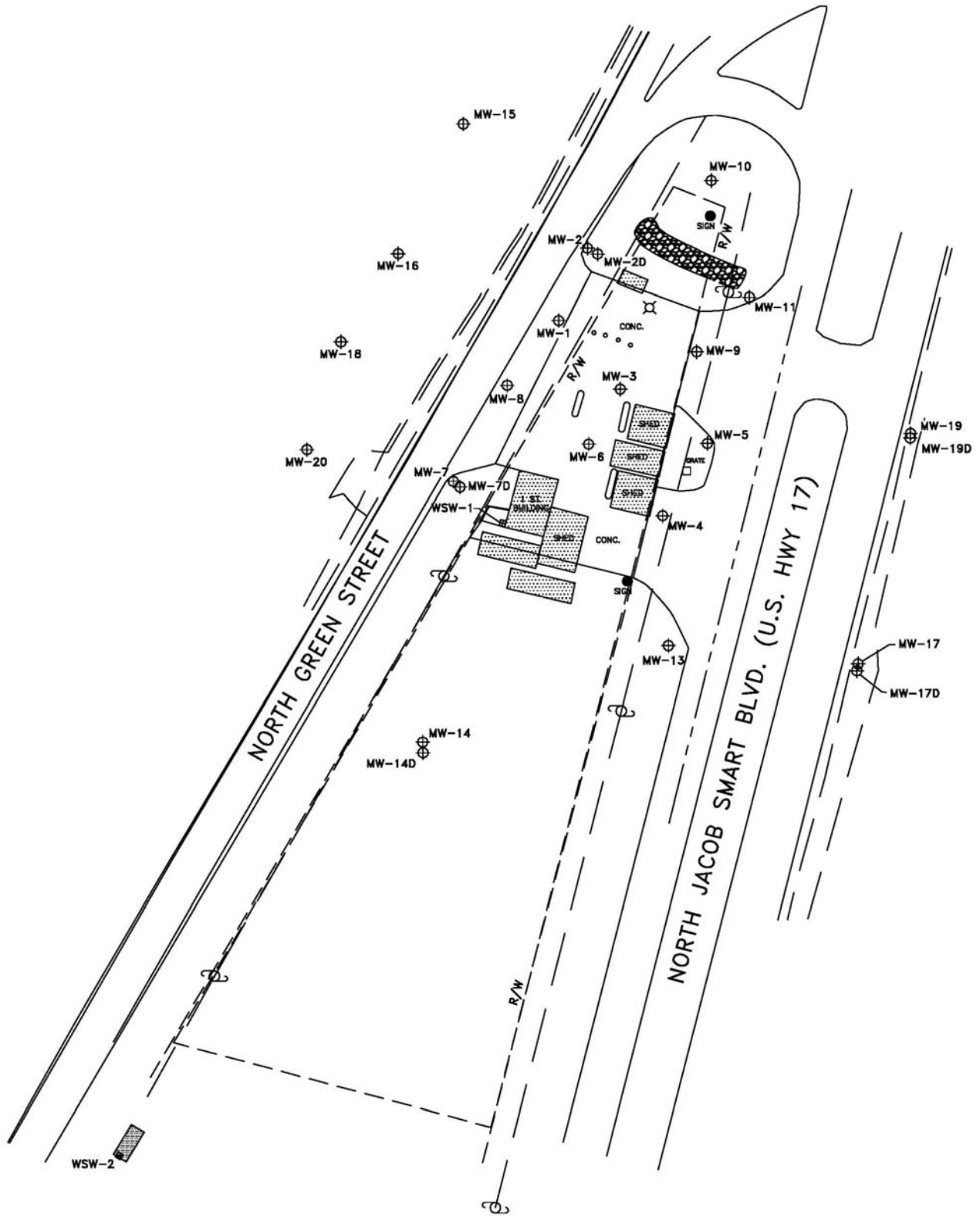
### GRAPHIC SCALE



1IN = 40FT

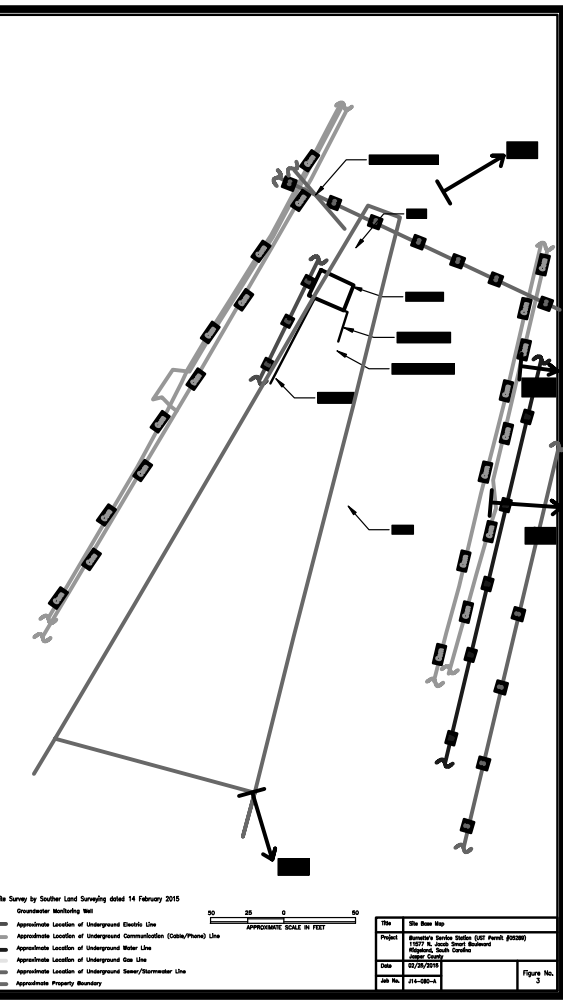
Reference: SCDHEC Files, MECI Field notes, and Jasper County GIS Imagery.

<p><b>Midlands Environmental Consultants, Inc.</b></p>	<p><b>Site Features</b></p>
<p><b>Burnette's Service Station</b> 11577 N. Jacob Smart Boulevard, Ridgeland, sc SCDHEC Site ID# 05289</p>	
<p><b>Figure 2</b></p>	<p><b>MECI 14-4751</b></p>

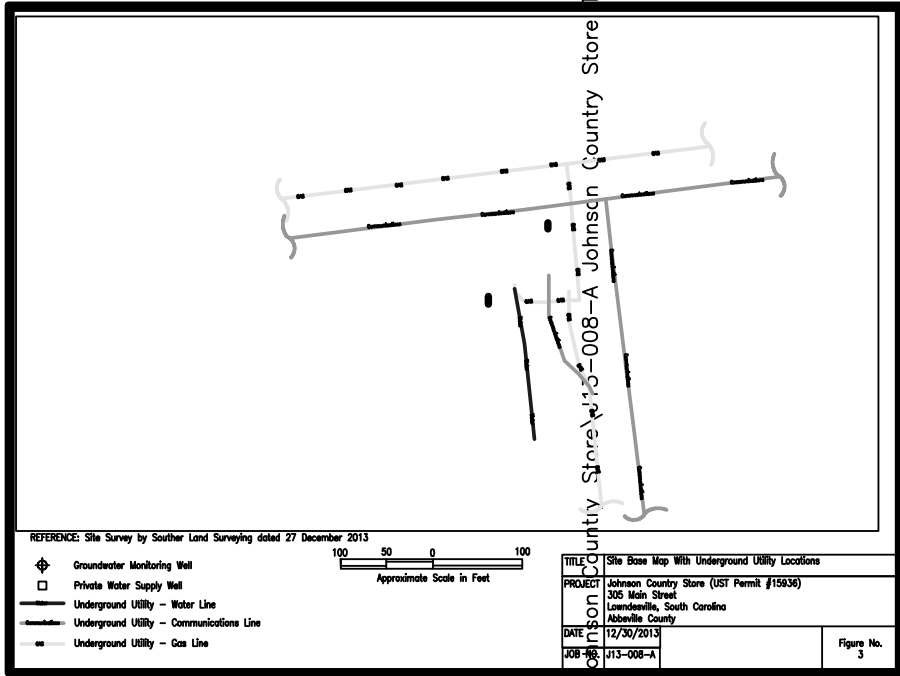








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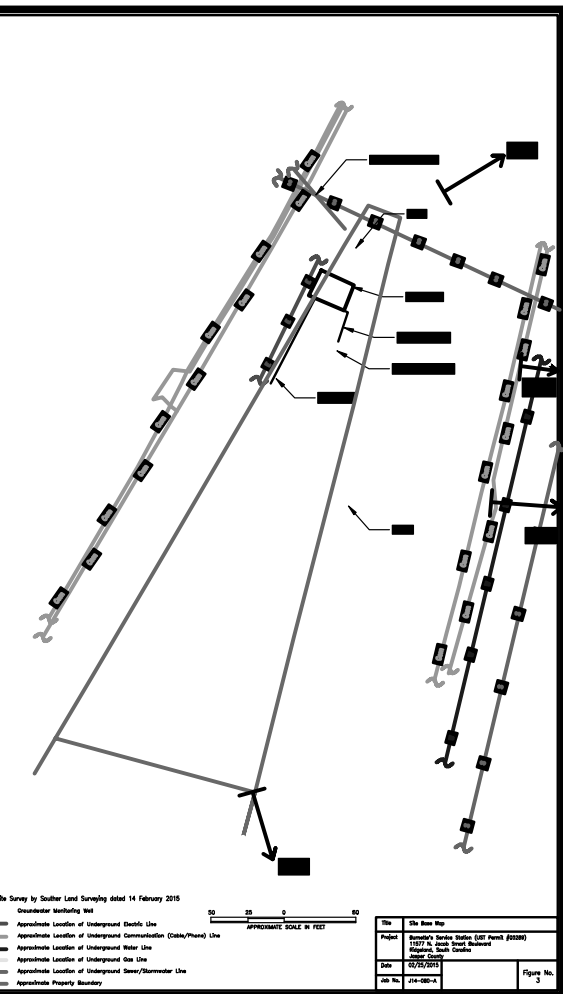
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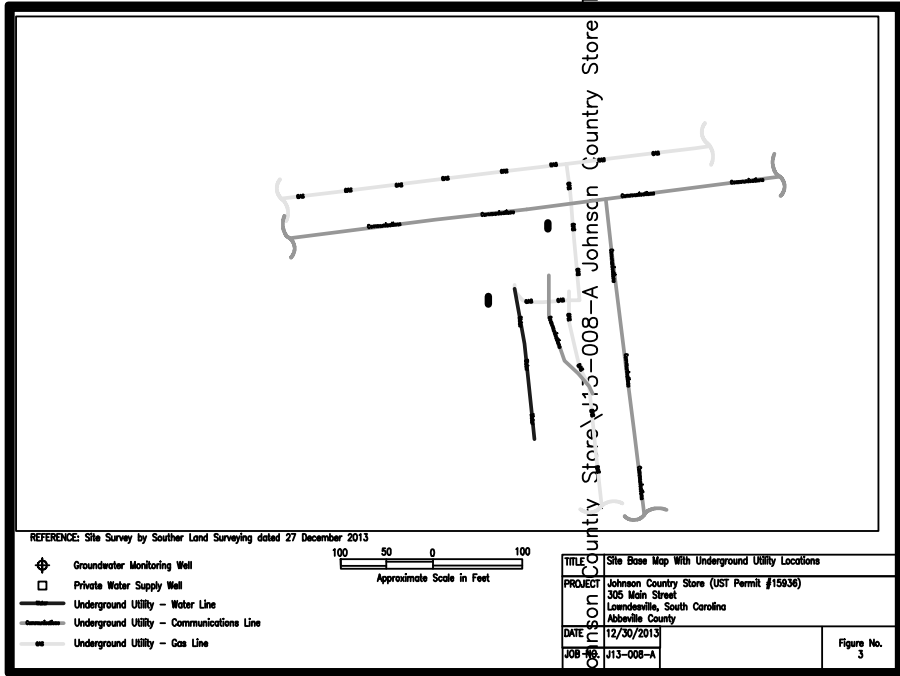
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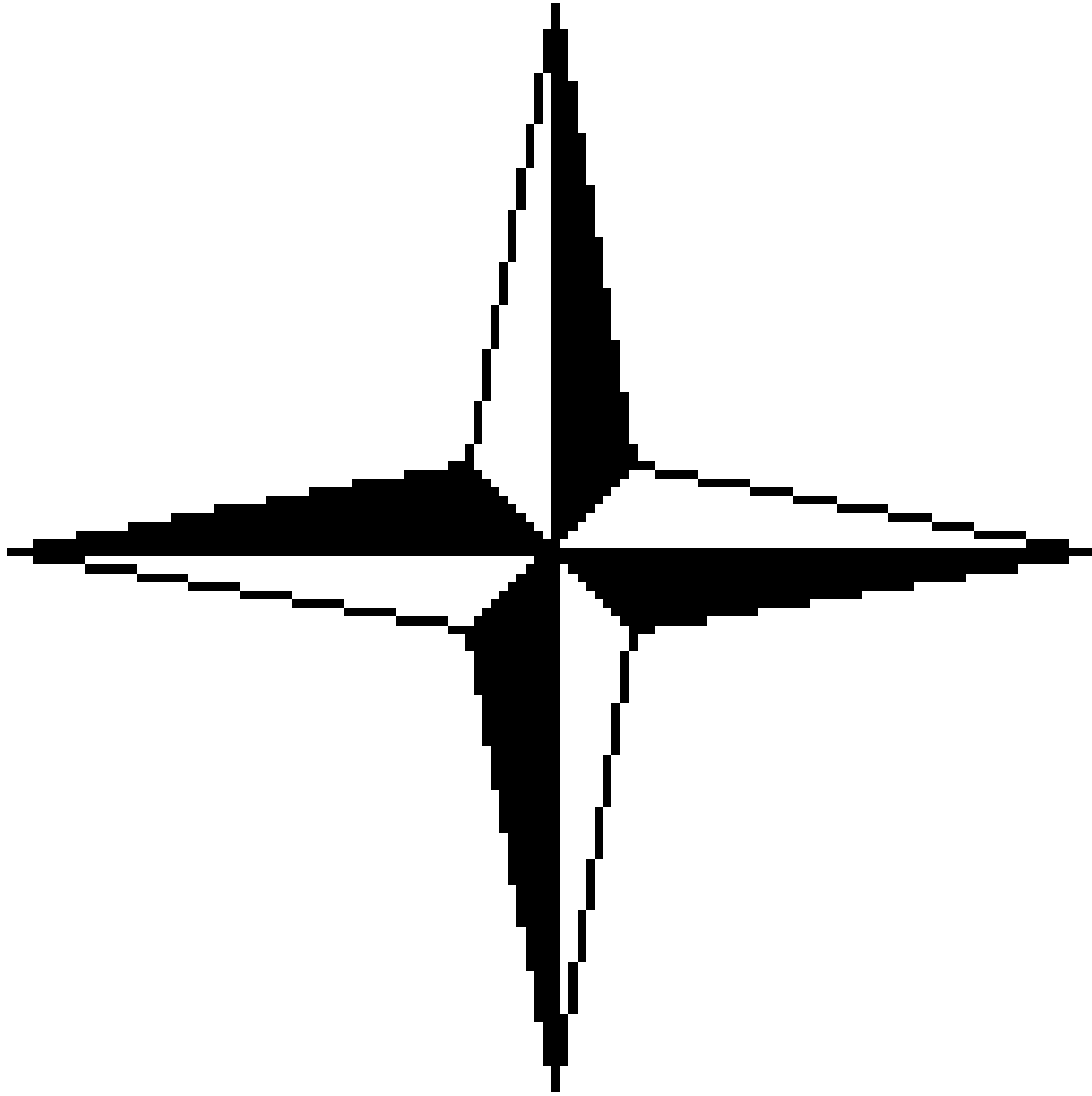




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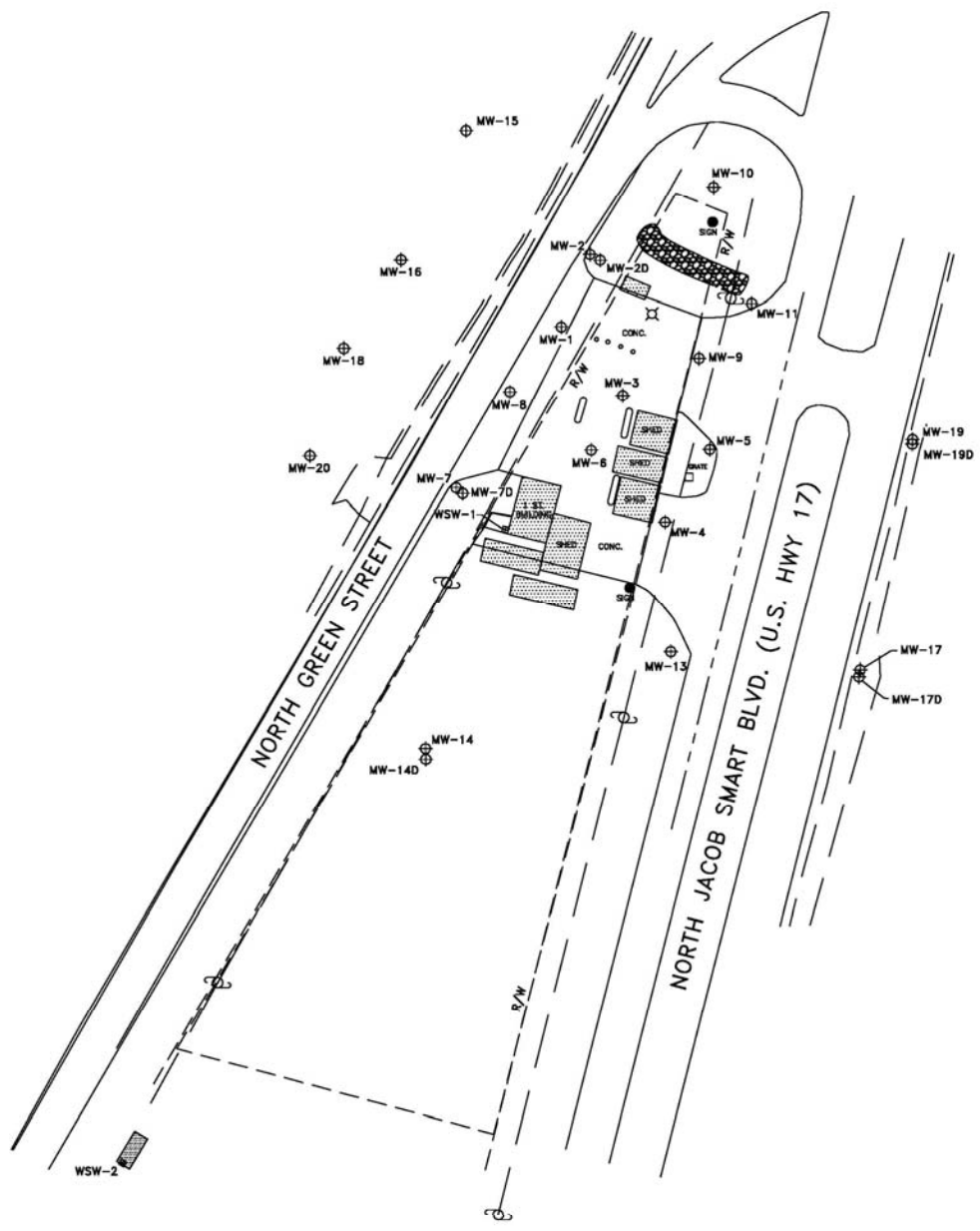


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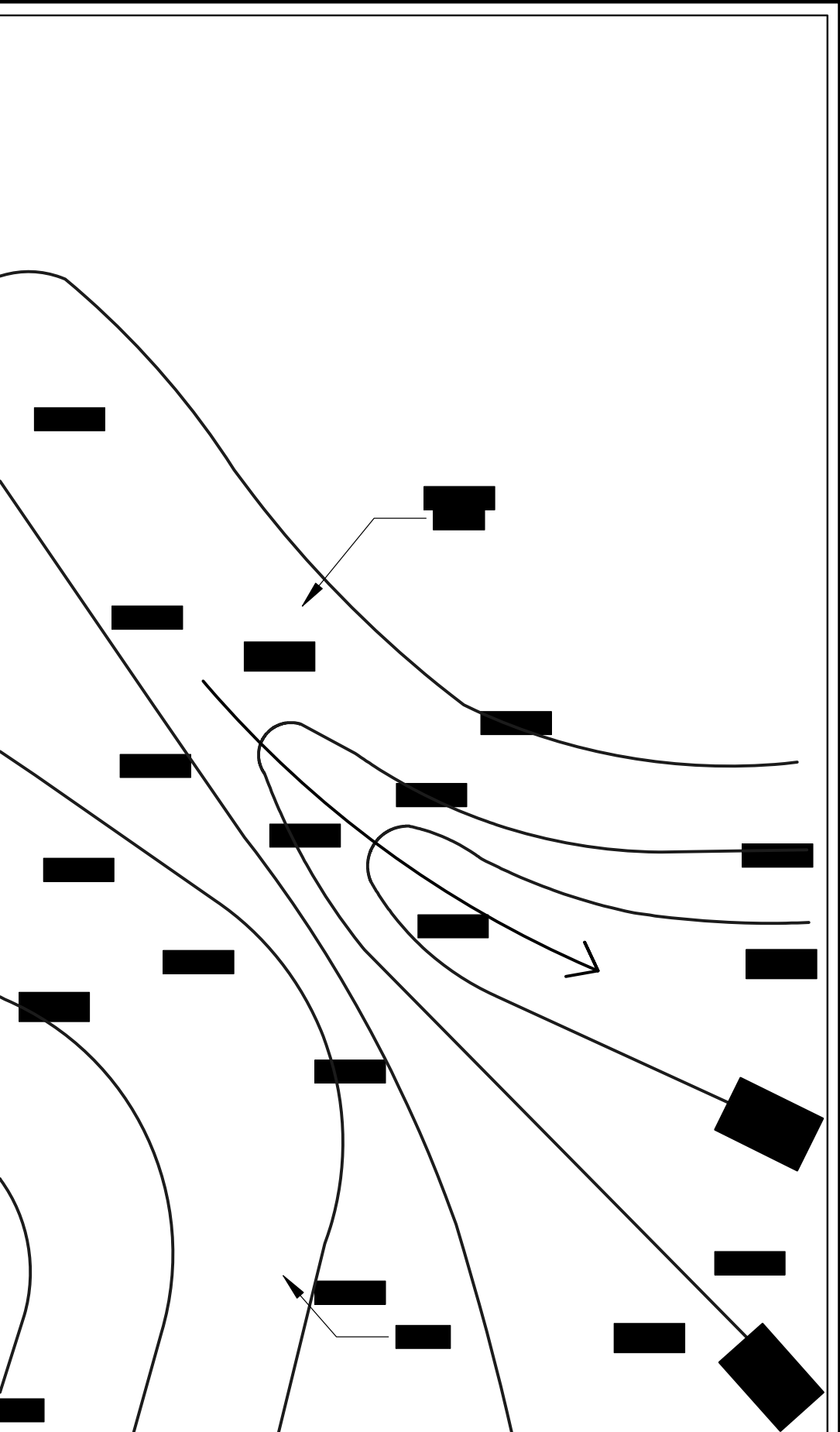
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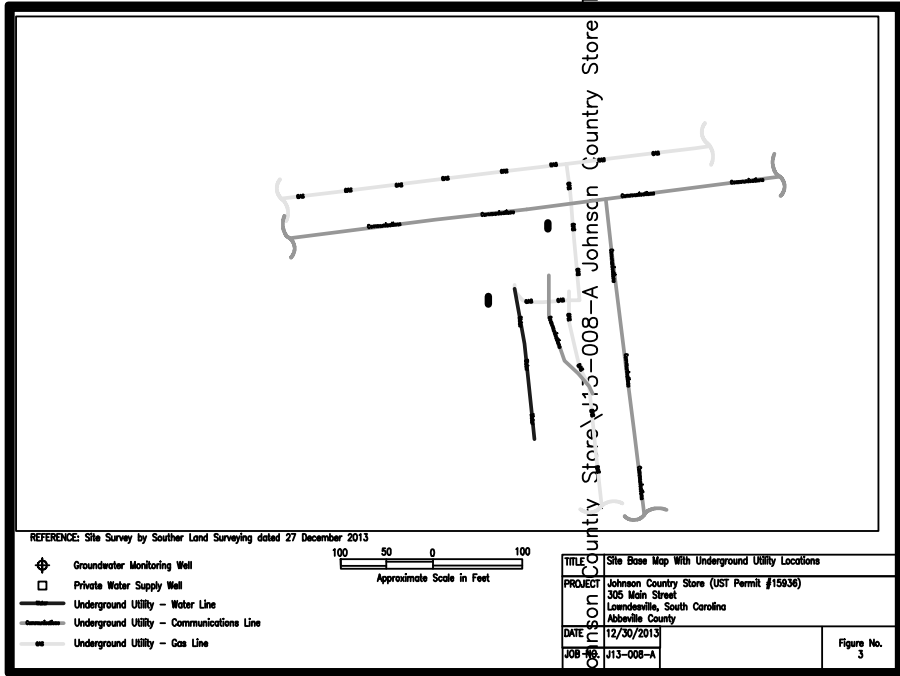








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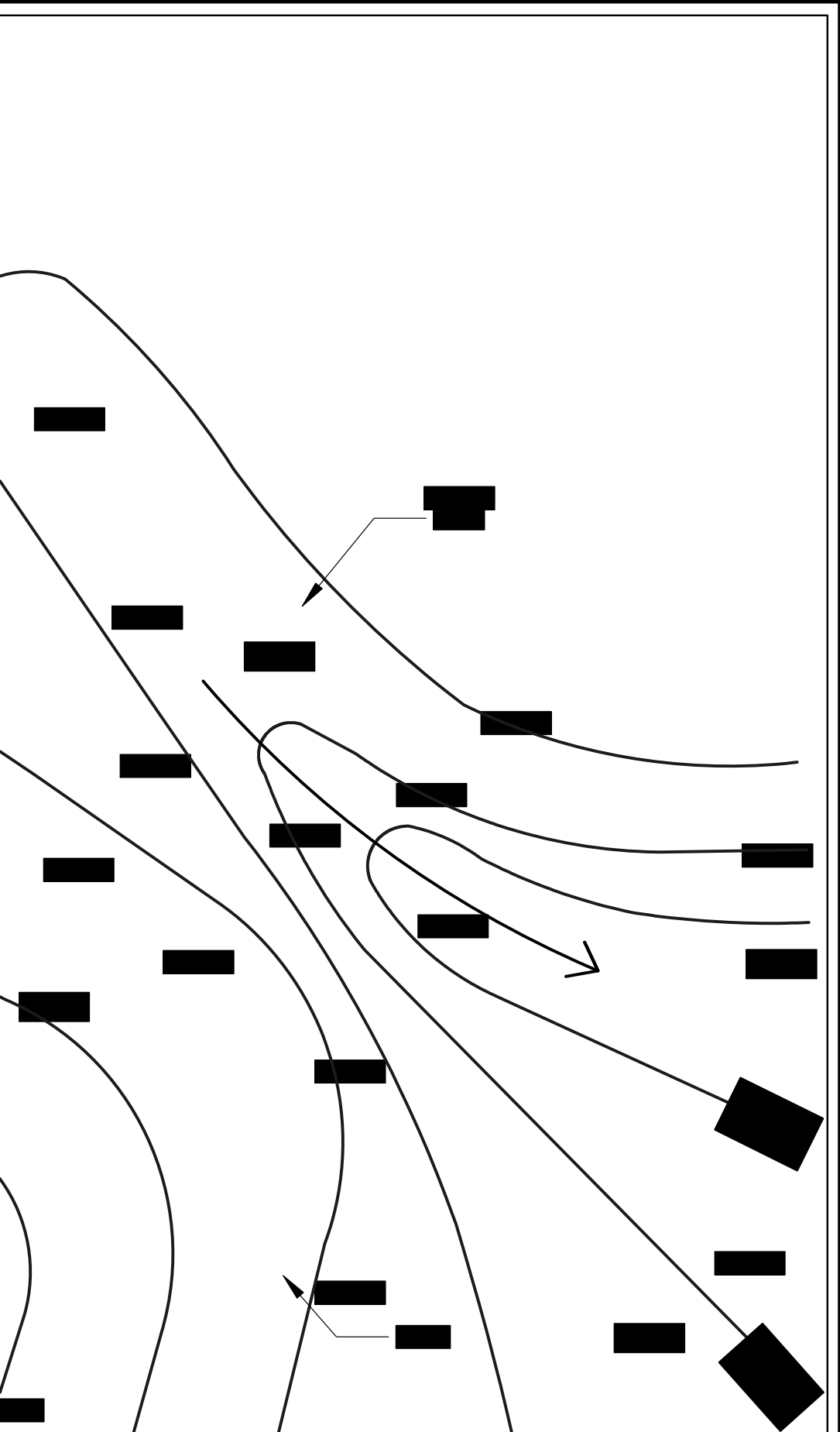


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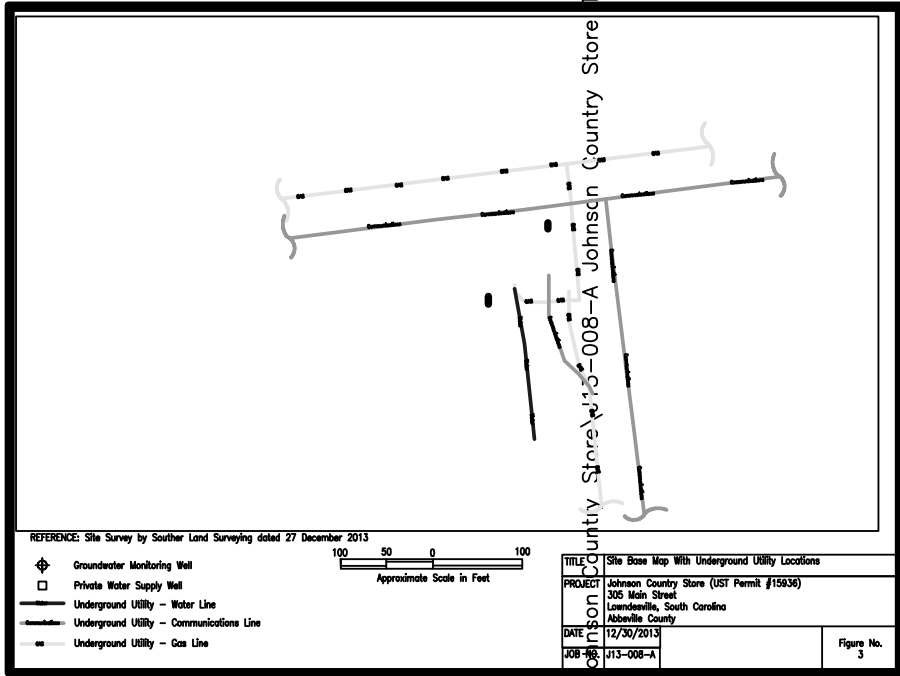
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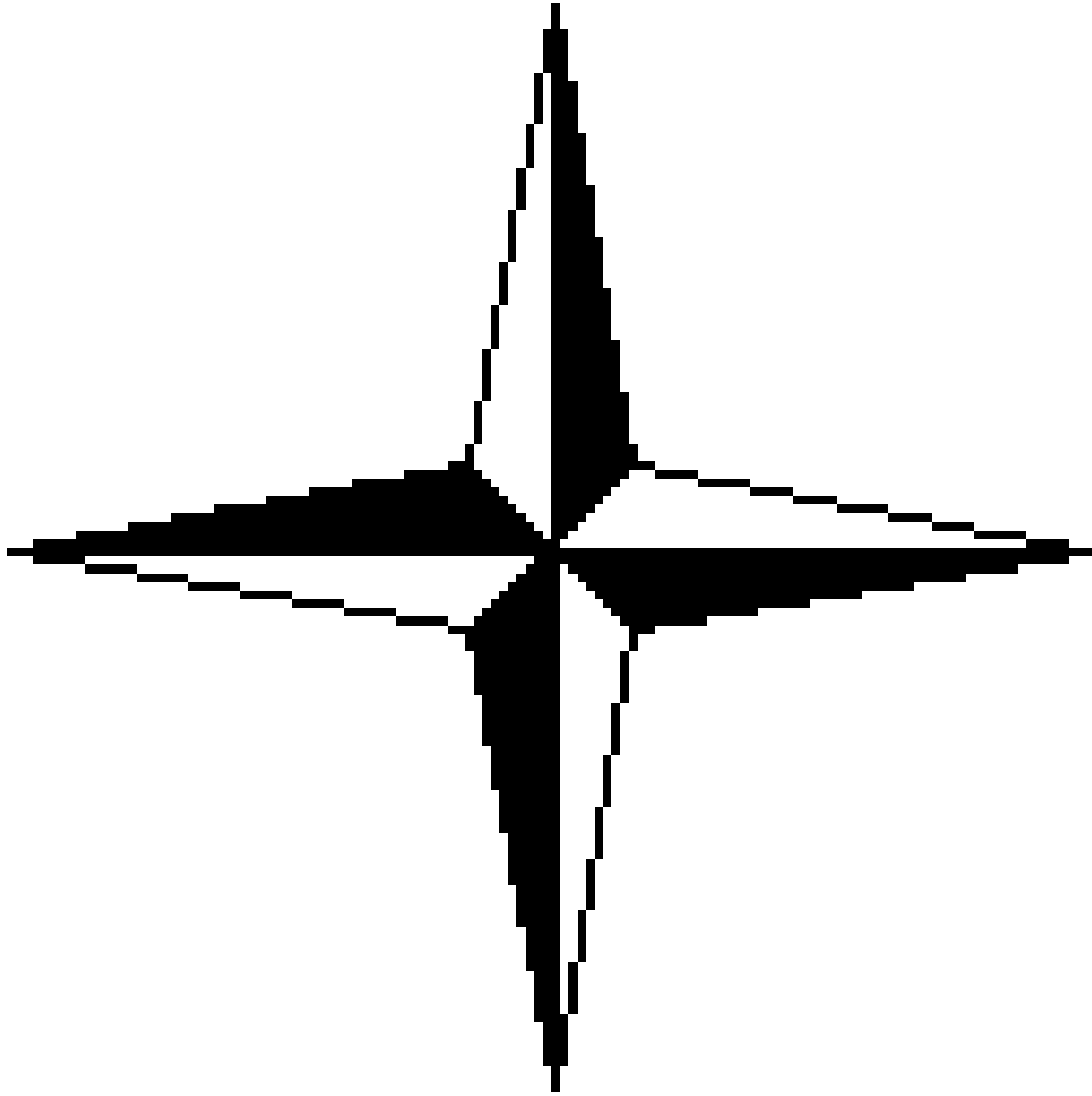
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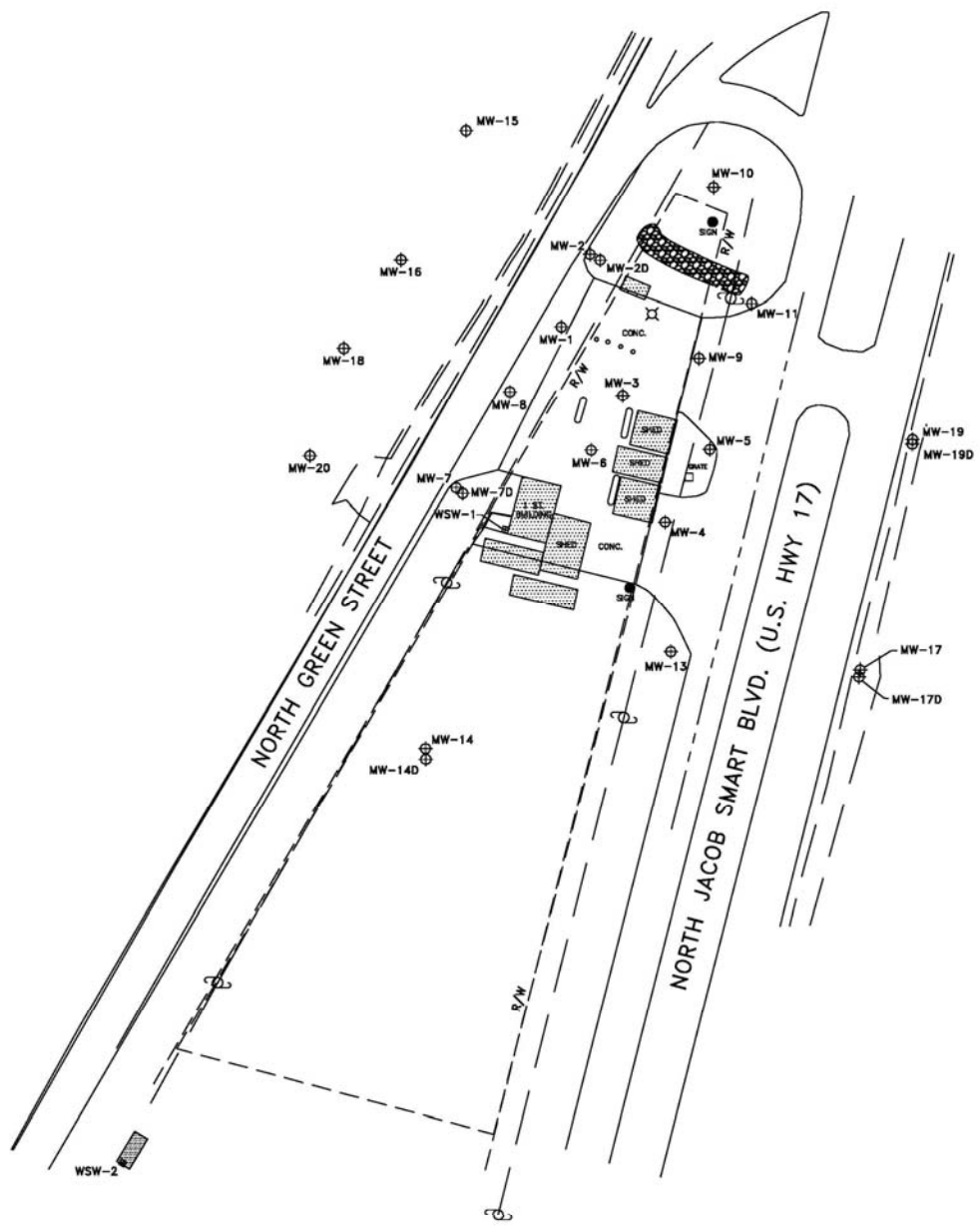


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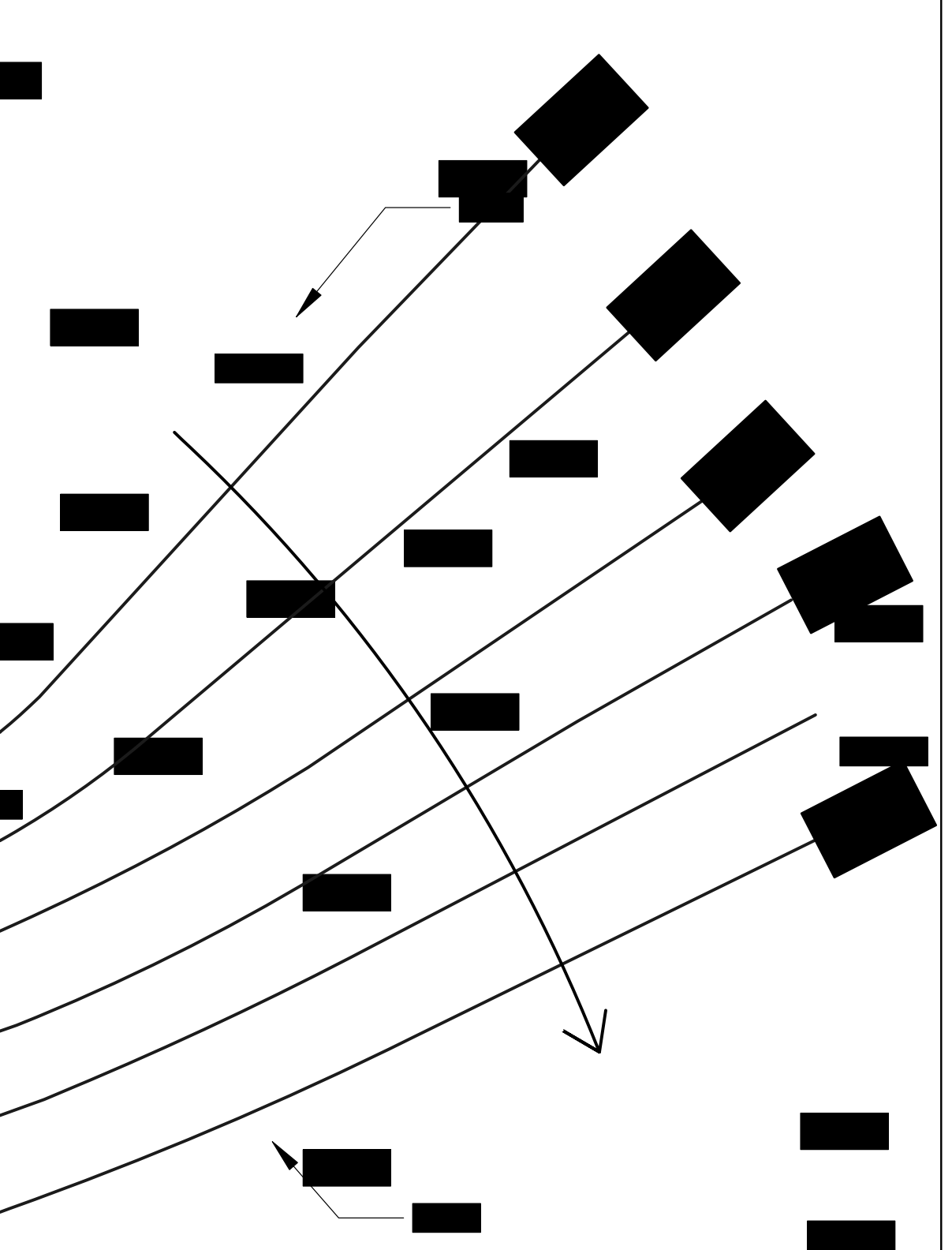
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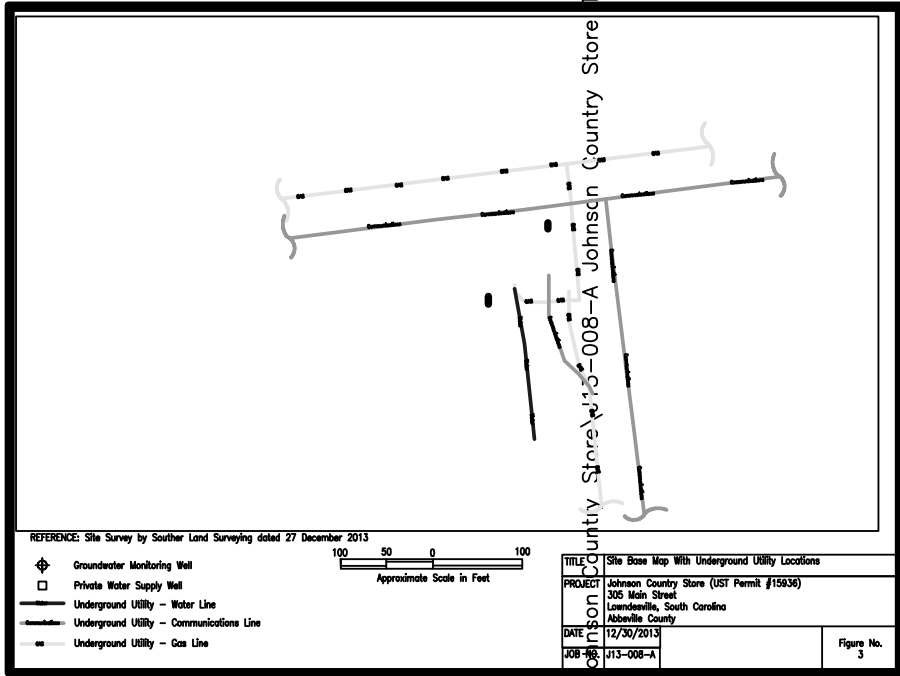








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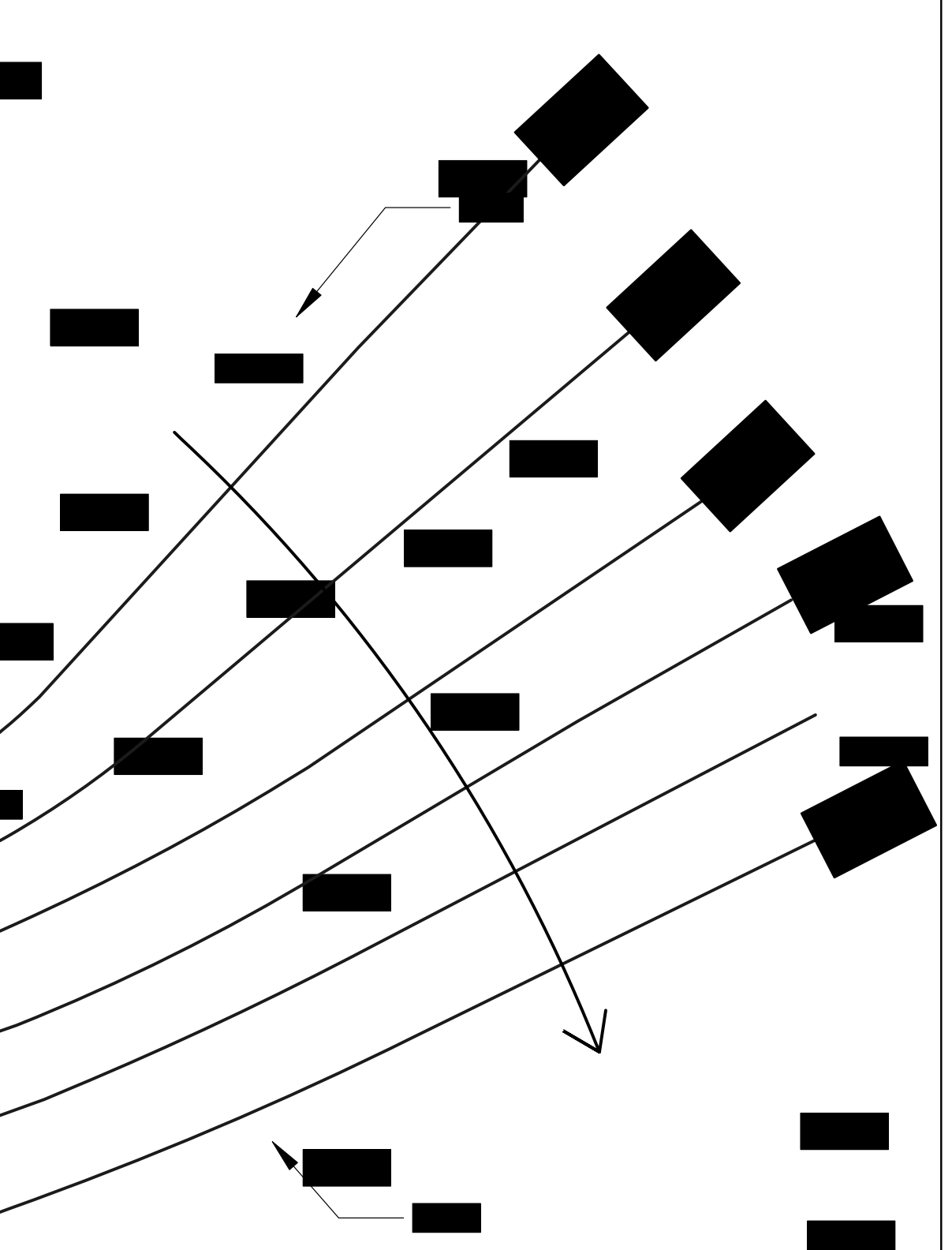
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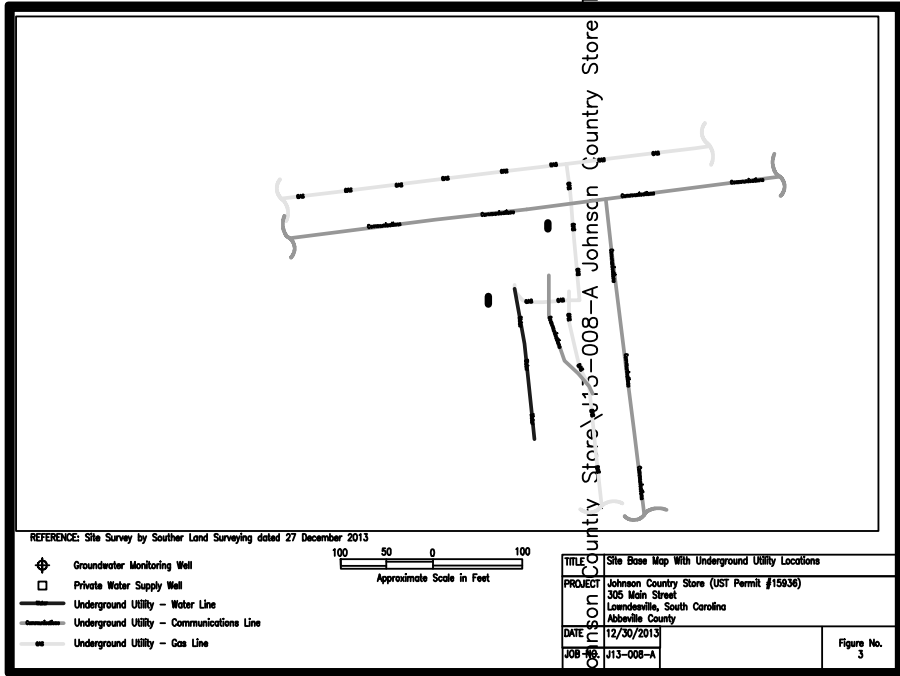
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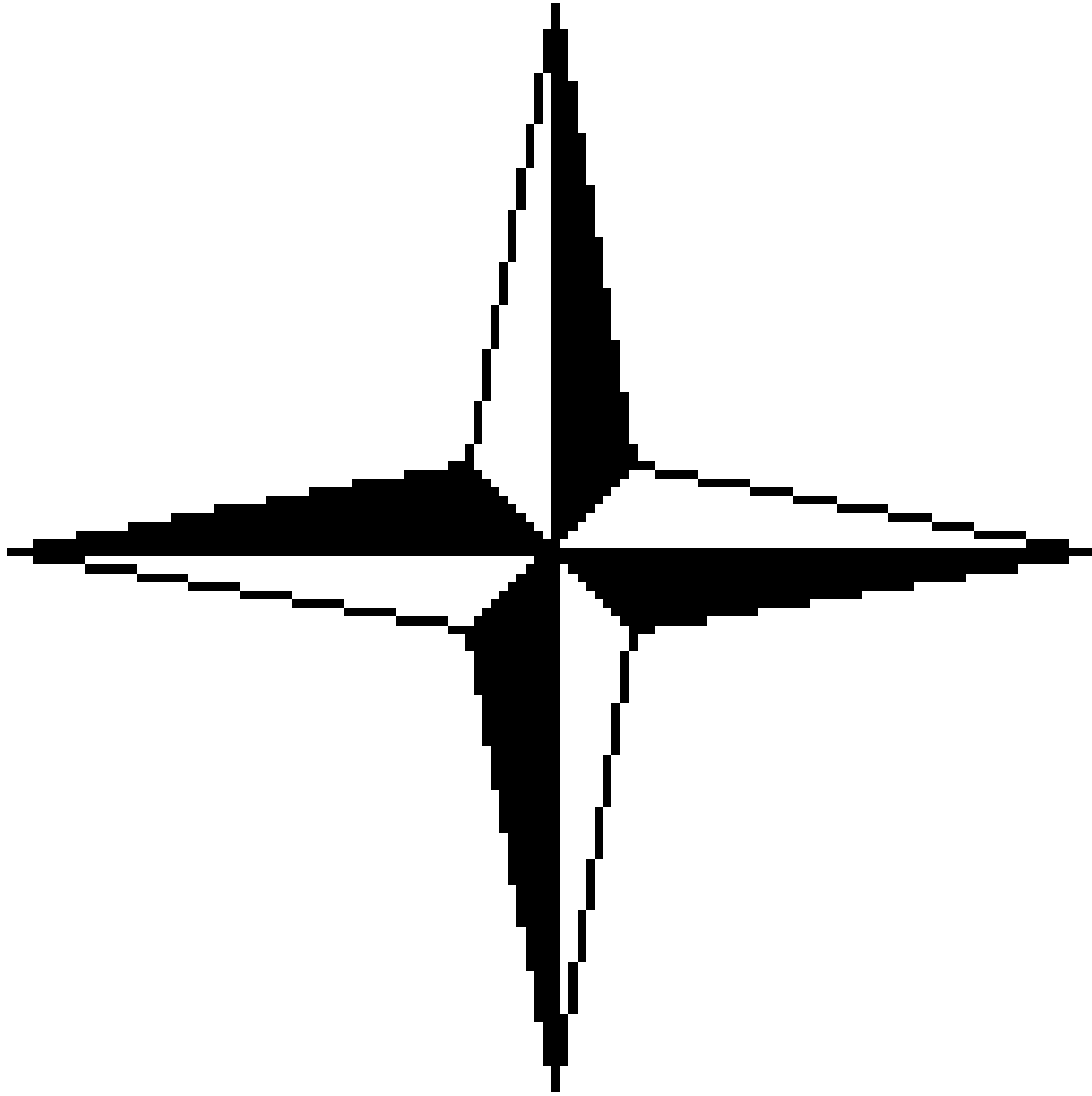




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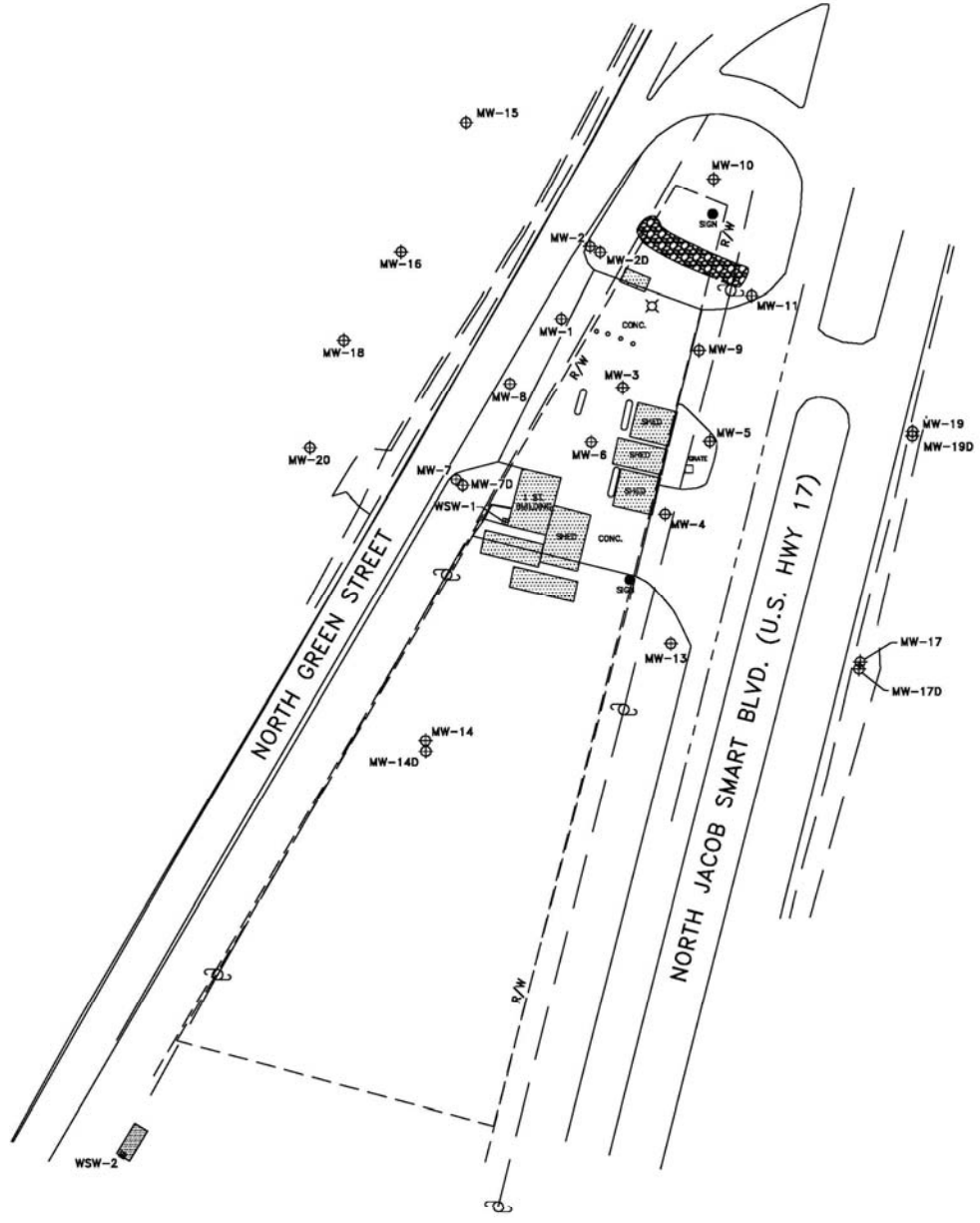


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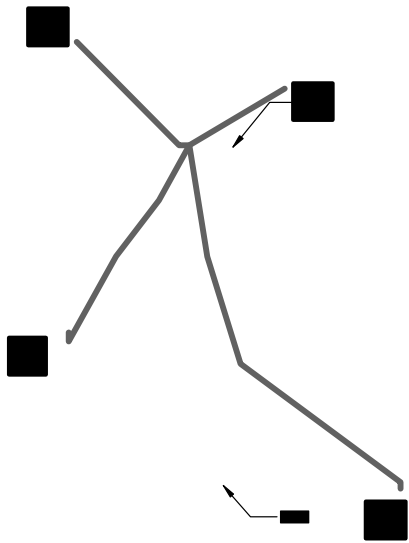
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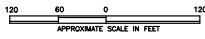




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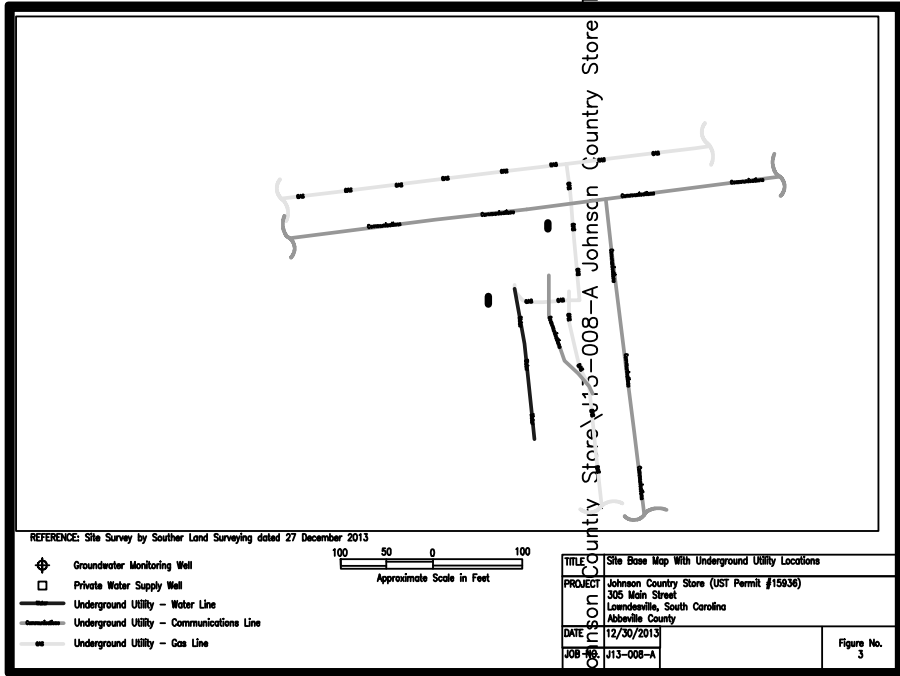


Groundwater Monitoring Well



Title	Subsurface Geologic Cross-Section Reference Map
Project	Burnette's Service Station (UST Permit #02289) 11577 N. Jacob Smart Boulevard Highland, South Carolina Jasper County
Date	02/25/2015
Job No.	J14-080-A
Figure No.	50

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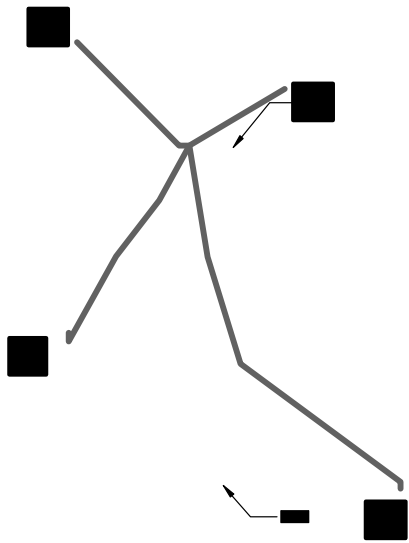


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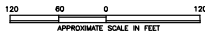




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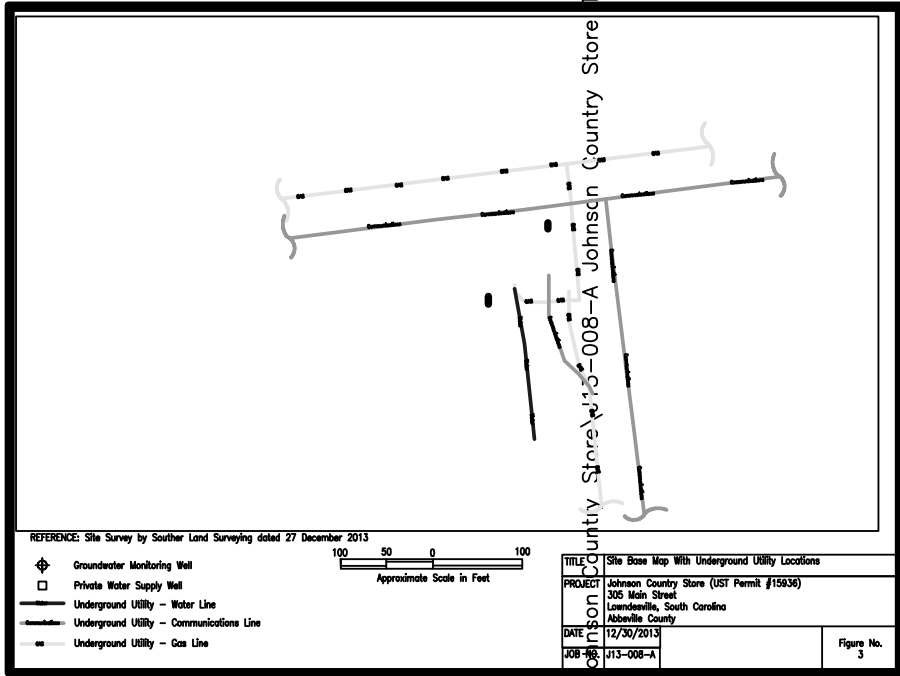


Groundwater Monitoring Well



Title	Subsurface Geologic Cross-Section Reference Map
Project	Burnette's Service Station (UST Permit #00589) 11577 N. Jacob Smart Boulevard Hogland, South Carolina Jasper County
Date	02/25/2015
Job No.	J14-080-A
Figure No.	50

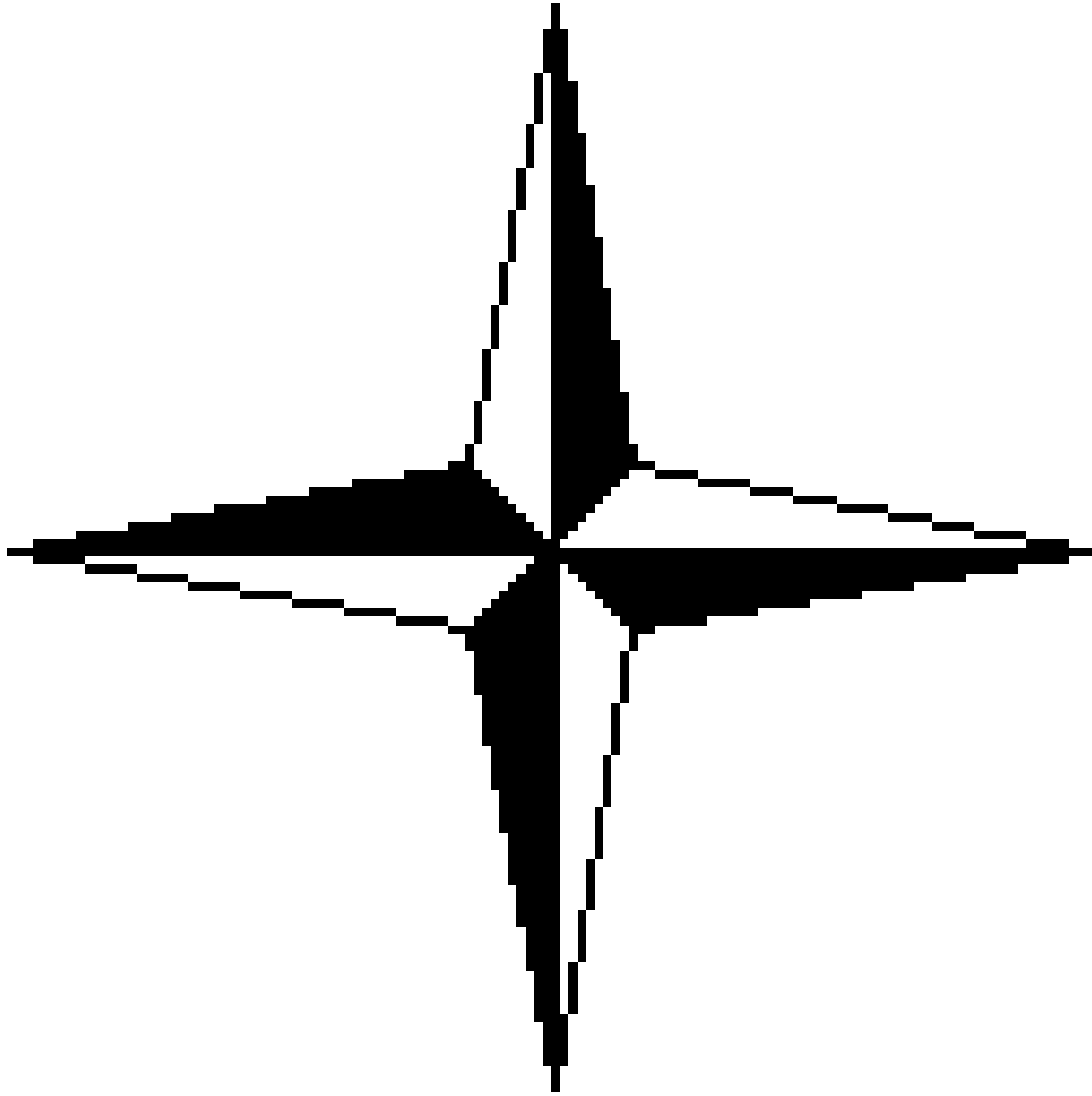
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MW-15



MW-16



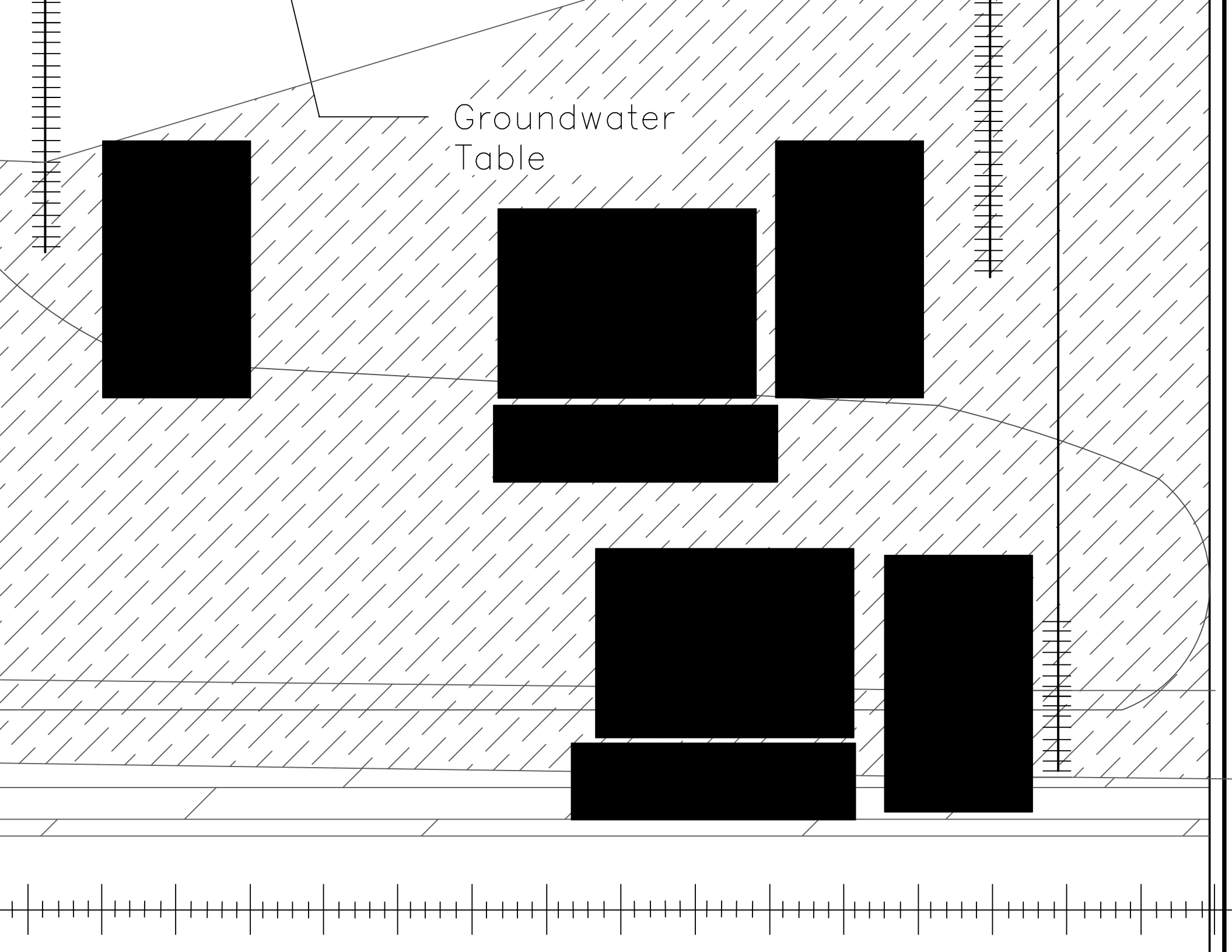
MW-17

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Screening Borings

Title	Proposed Screening and Well Location Plan (11-12-13)	
Project	Johnson Country Store (UST Permit #15936) 305 Main Street Lowndesville, South Carolina Abbeville County	
Date	11/12/2015	Figure No. 2
Job No.	J13-008-A	

Groundwater  
Table









MW-15



MW-16



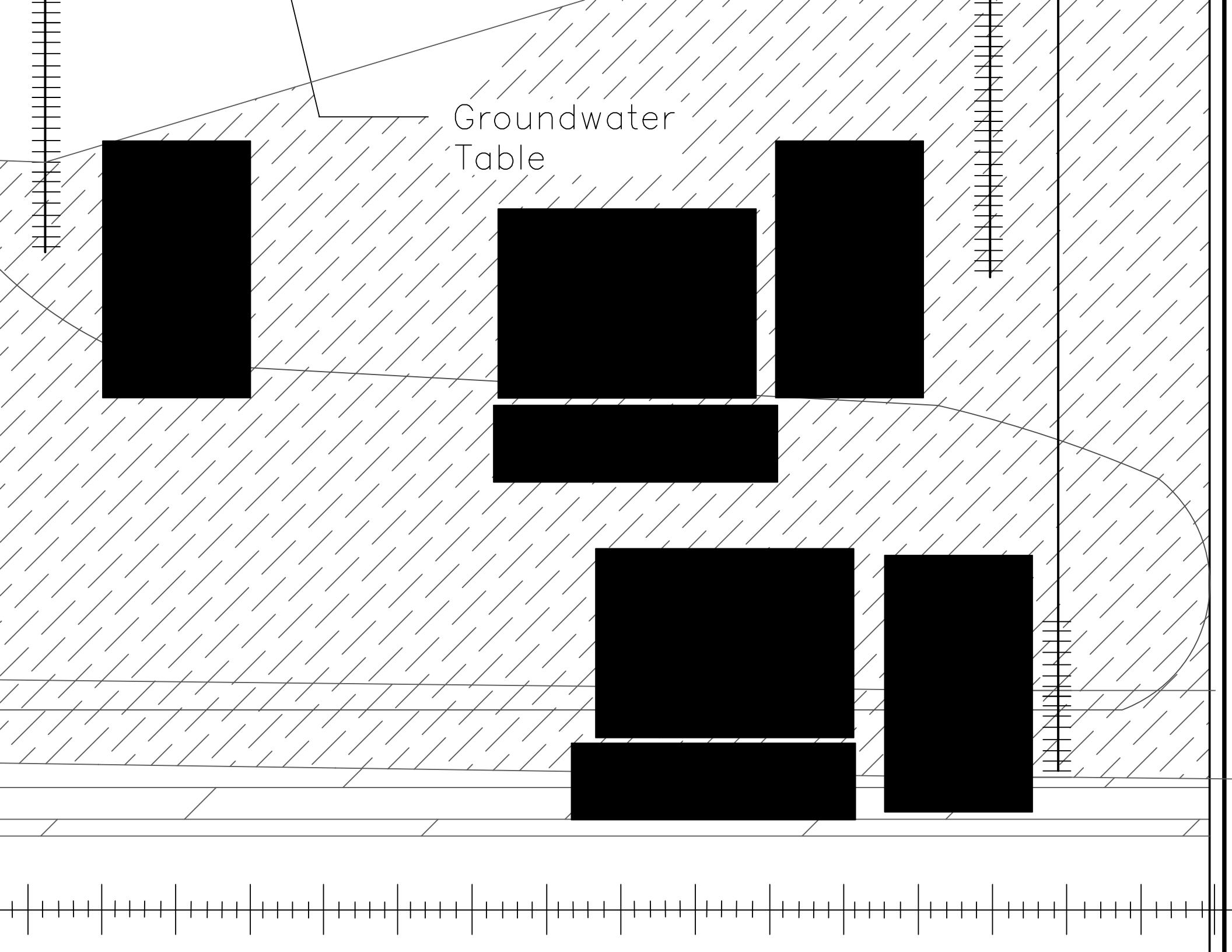
MW-17

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Screening Borings

Title	Proposed Screening and Well Location Plan (11-12-13)	
Project	Johnson Country Store (UST Permit #15936) 305 Main Street Lowndesville, South Carolina Abbeville County	
Date	11/12/2015	Figure No. 2
Job No.	J13-008-A	

Groundwater  
Table











MW-15



MW-16

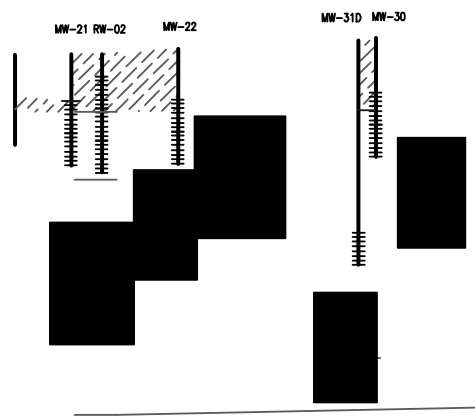
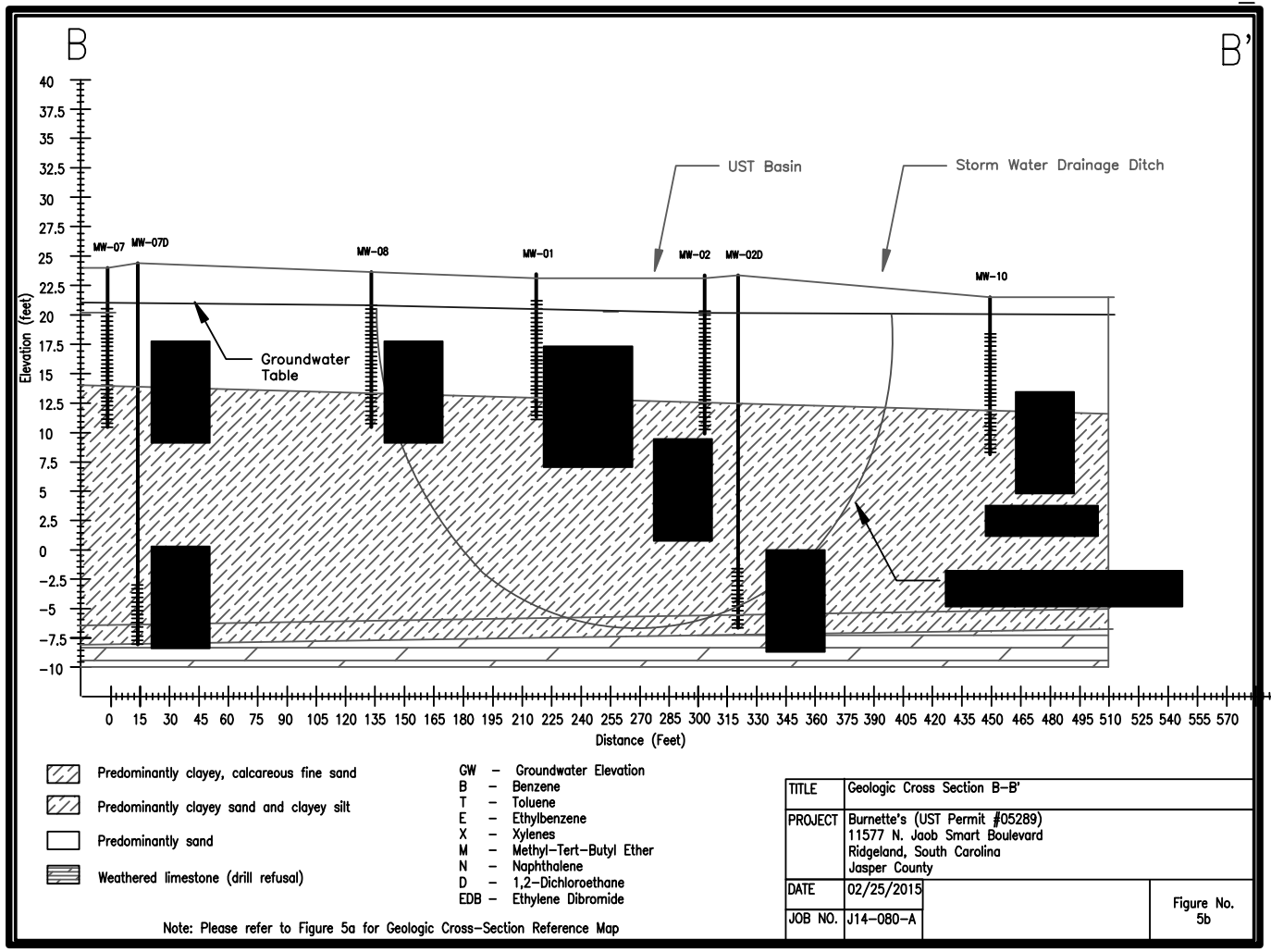


MW-17

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Screening Borings

Title	Proposed Screening and Well Location Plan (11-12-13)	
Project	Johnson Country Store (UST Permit #15936) 305 Main Street Lowndesville, South Carolina Abbeville County	
Date	11/12/2015	Figure No. 2
Job No.	J13-008-A	









MW-15



MW-16

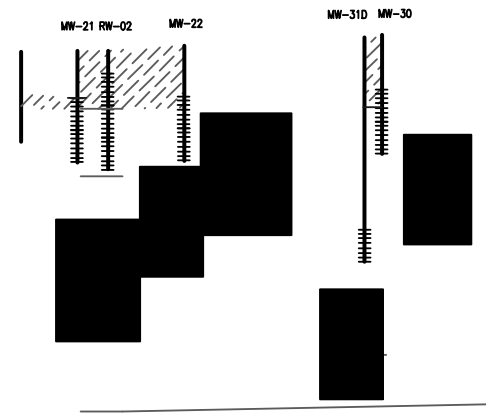
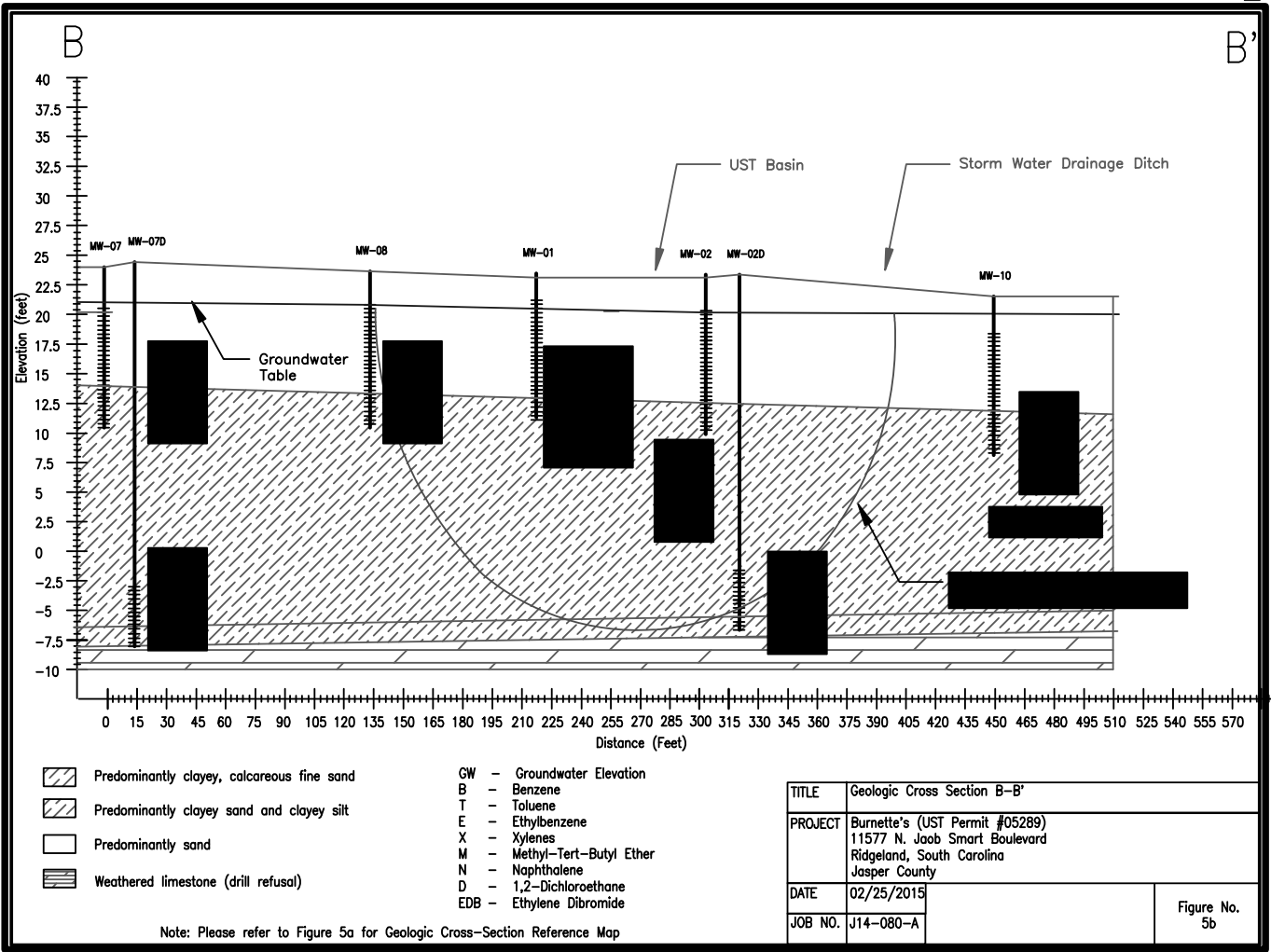


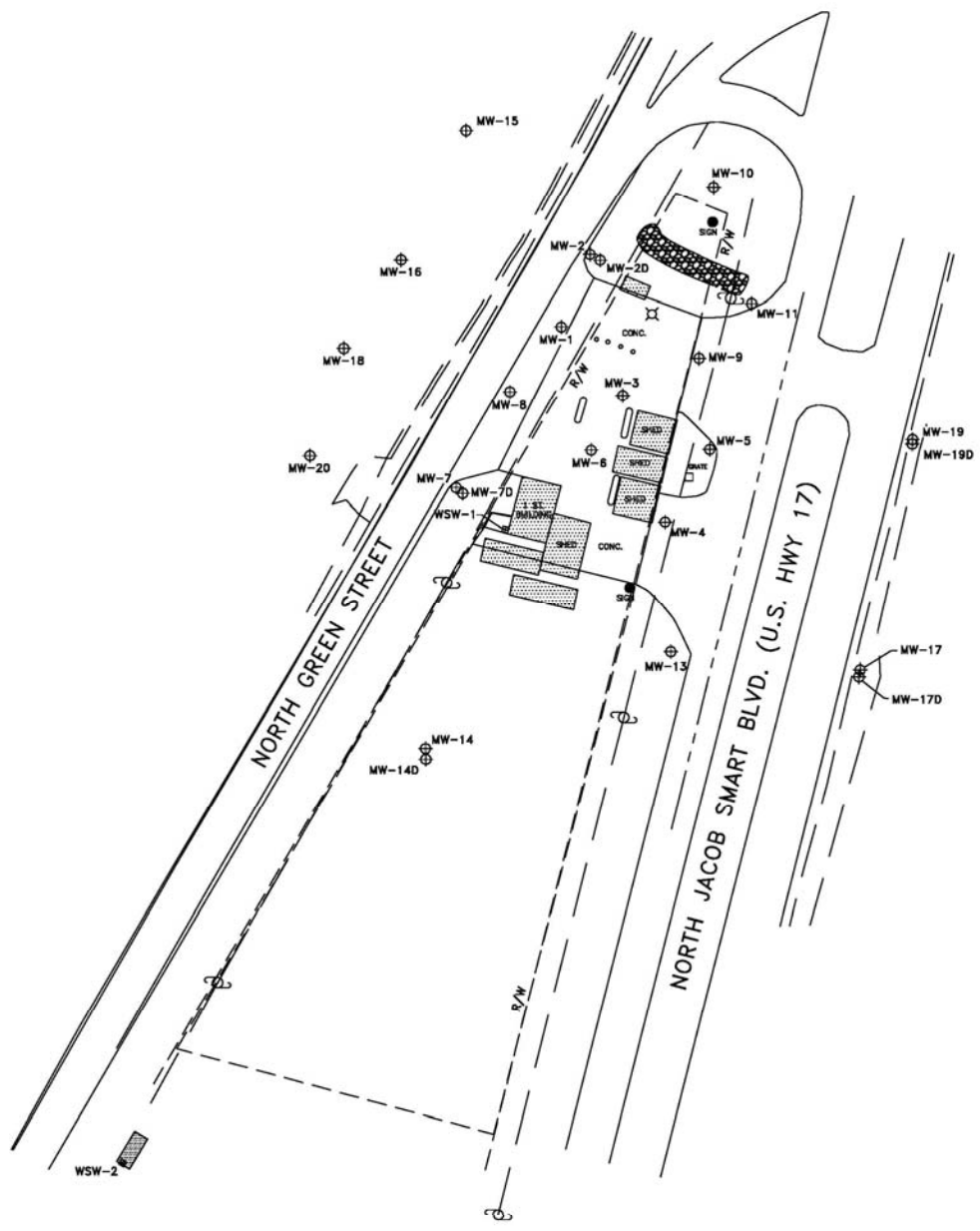
MW-17

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Screening Borings

Title	Proposed Screening and Well Location Plan (11-12-13)	
Project	Johnson Country Store (UST Permit #15936) 305 Main Street Lowndesville, South Carolina Abbeville County	
Date	11/12/2015	Figure No. 2
Job No.	J13-008-A	











05289-MW01

CONCENTRATION (UG/L)
430 / 470
810 / 1300
410 / 480
590 / 820
<4.0 / <4.0
520 / 590
<0.020 / <0.020
<1.5 / <1.5

05289-MW02

COMPOUND	CONCENTRATION (UG/L)
Benzene	21
Toluene	78
Ethylbenzene	45
Xylenes	120
MTBE	2.6J
Naphthalene	230
EDB	<0.020
1,2-DCA	<0.7

SW01

COMPOUND	CONCENTRATION (UG/L)
Benzene	<0.13
Toluene	<0.33
Ethylbenzene	<0.33
Xylenes	0.46J
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.020
1,2-DCA	<0.15

05289-MW03

COMPOUND	CONCENTRATION (UG/L)
Benzene	6400 / 6500
Toluene	39000 / 39000
Ethylbenzene	3700 / 3300
Xylenes	19000 / 17000
MTBE	<200 / <200
Naphthalene	1000 / 2400
EDB	0.055 / 0.059
1,2-DCA	<74 / <74

05289-MW09

COMPOUND	CONCENTRATION (UG/L)
Benzene	<0.13
Toluene	<0.33
Ethylbenzene	<0.33
Xylenes	<0.33
MTBE	13
Naphthalene	<0.40
EDB	<0.019
1,2-DCA	<0.15

05289-MW17

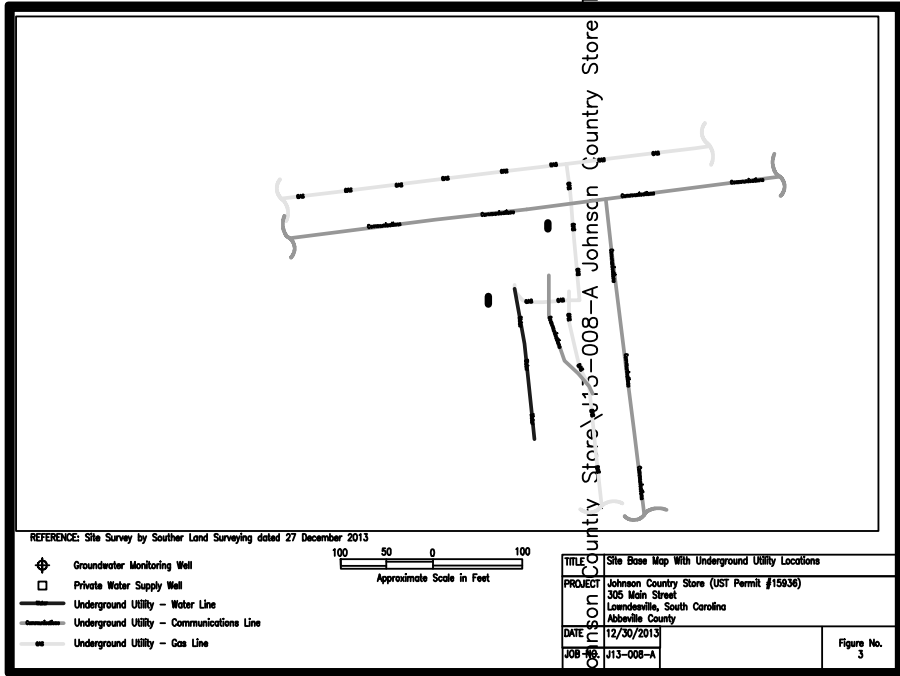
COMPOUND	CONCENTRATION (UG/L)
Benzene	<0.13
Toluene	0.38J
Ethylbenzene	0.53J
Xylenes	0.60J
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.020
1,2-DCA	<0.15

05289-MW04

COMPOUND	CONCENTRATION (UG/L)
Benzene	2.9
Toluene	<0.33
Ethylbenzene	<0.33
Xylenes	74
MTBE	1.4
Naphthalene	1.1
EDB	<0.019
1,2-DCA	<0.15

05289-MW06

COMPOUND	CONCENTRATION (UG/L)
Benzene	3500
Toluene	27000
Ethylbenzene	2200
Xylenes	13000
MTBE	<80
Naphthalene	1200
EDB	<0.028
1,2-DCA	<29



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05289-MW01

CONCENTRATION (UG/L)
430 / 470
810 / 1300
410 / 480
590 / 820
<4.0 / <4.0
520 / 590
<0.020 / <0.020
<1.5 / <1.5

05289-MW02

COMPOUND	CONCENTRATION (UG/L)
Benzene	21
Toluene	78
Ethylbenzene	45
Xylenes	120
MTBE	2.6J
Naphthalene	230
EDB	<0.020
1,2-DCA	<0.7

SW01

COMPOUND	CONCENTRATION (UG/L)
Benzene	<0.13
Toluene	<0.33
Ethylbenzene	<0.33
Xylenes	0.46J
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.020
1,2-DCA	<0.15

05289-MW03

COMPOUND	CONCENTRATION (UG/L)
Benzene	6400 / 6500
Toluene	39000 / 39000
Ethylbenzene	3700 / 3300
Xylenes	19000 / 17000
MTBE	<200 / <200
Naphthalene	1000 / 2400
EDB	0.055 / 0.059
1,2-DCA	<74 / <74

05289-MW09

COMPOUND	CONCENTRATION (UG/L)
Benzene	<0.13
Toluene	<0.33
Ethylbenzene	<0.33
Xylenes	<0.33
MTBE	13
Naphthalene	<0.40
EDB	<0.019
1,2-DCA	<0.15

05289-MW17

COMPOUND	CONCENTRATION (UG/L)
Benzene	<0.13
Toluene	0.38J
Ethylbenzene	0.53J
Xylenes	0.60J
MTBE	<0.40
Naphthalene	<0.40
EDB	<0.020
1,2-DCA	<0.15

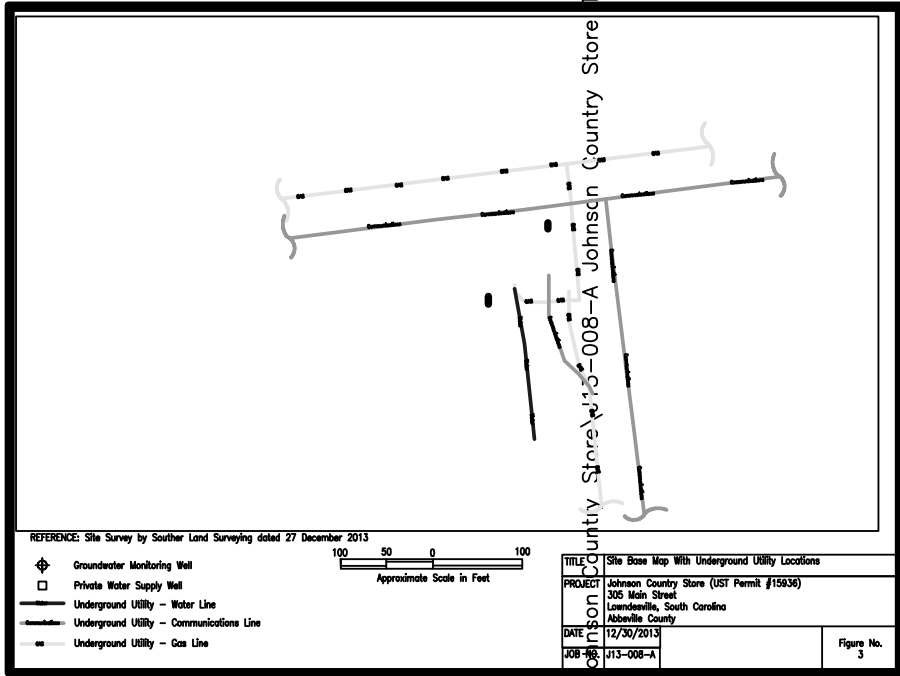
05289-MW04

COMPOUND	CONCENTRATION (UG/L)
Benzene	2.9
Toluene	<0.33
Ethylbenzene	<0.33
Xylenes	74
MTBE	1.4
Naphthalene	1.1
EDB	<0.019
1,2-DCA	<0.15

05289-MW06

COMPOUND	CONCENTRATION (UG/L)
Benzene	3500
Toluene	27000
Ethylbenzene	2200
Xylenes	13000
MTBE	<80
Naphthalene	1200
EDB	<0.028
1,2-DCA	<29

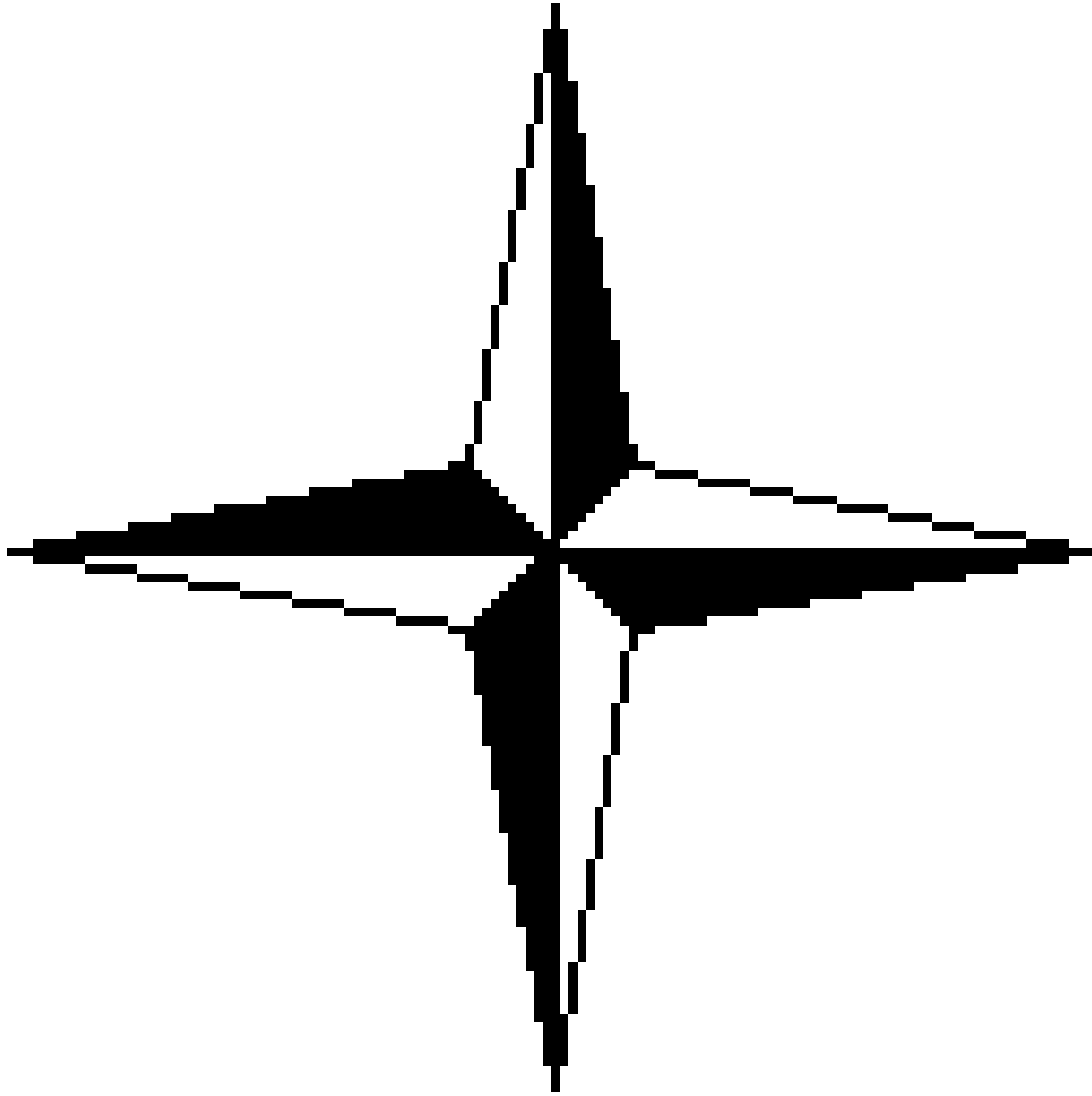
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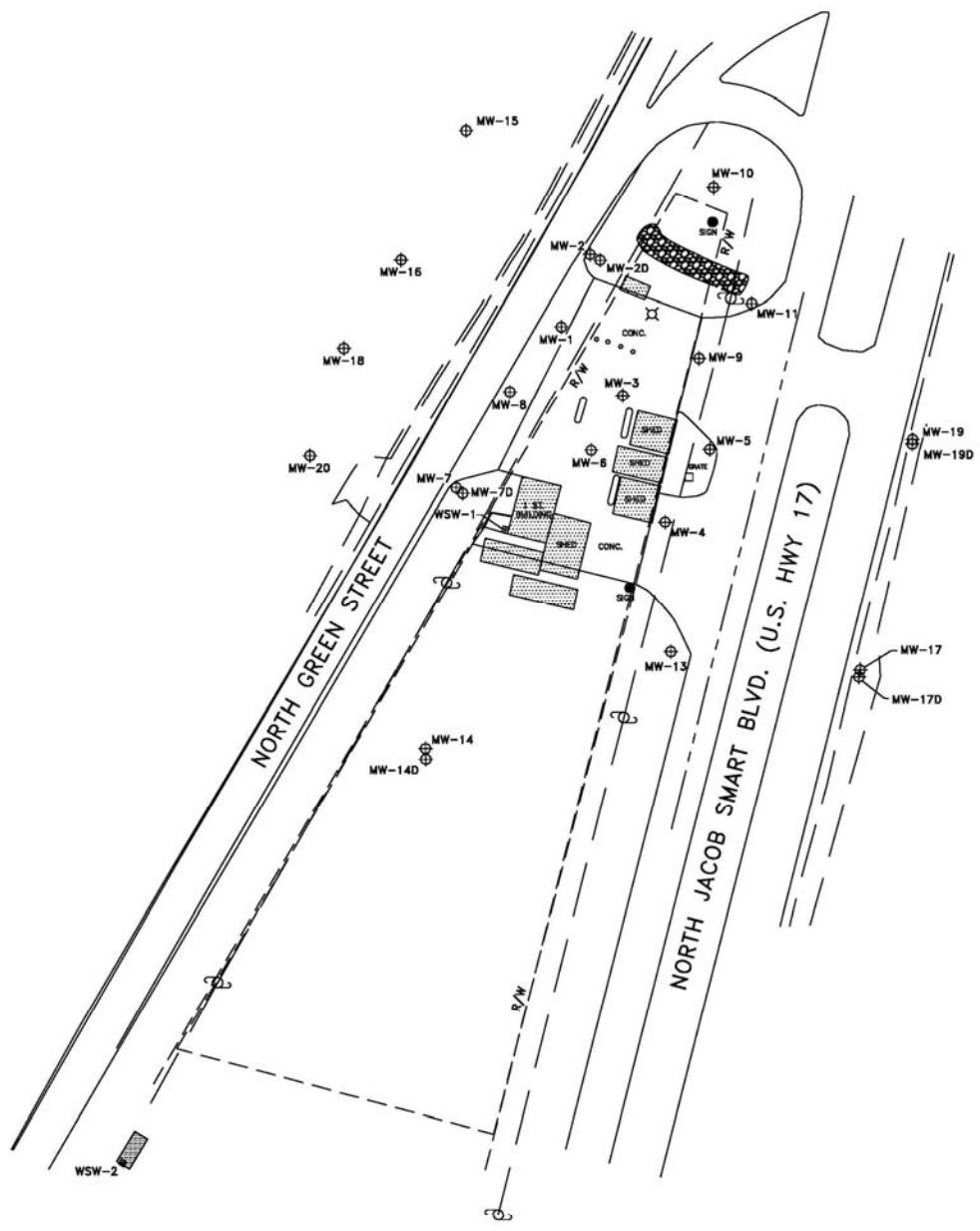




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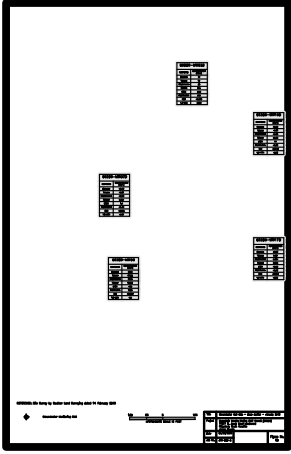
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**ENGINEERS & CONSULTANTS**

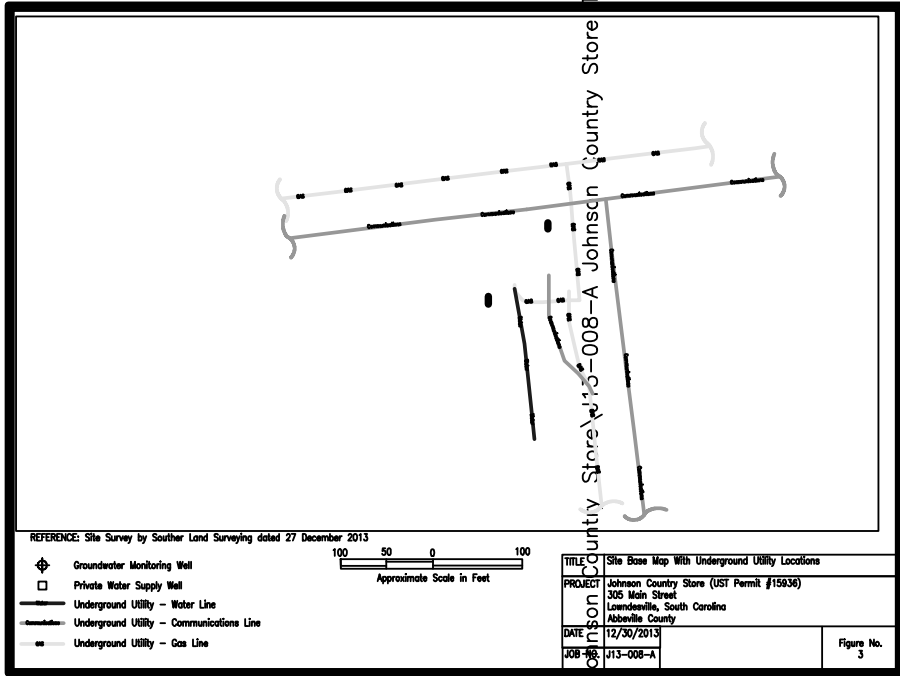








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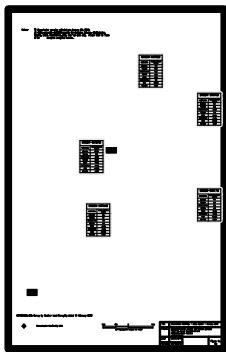
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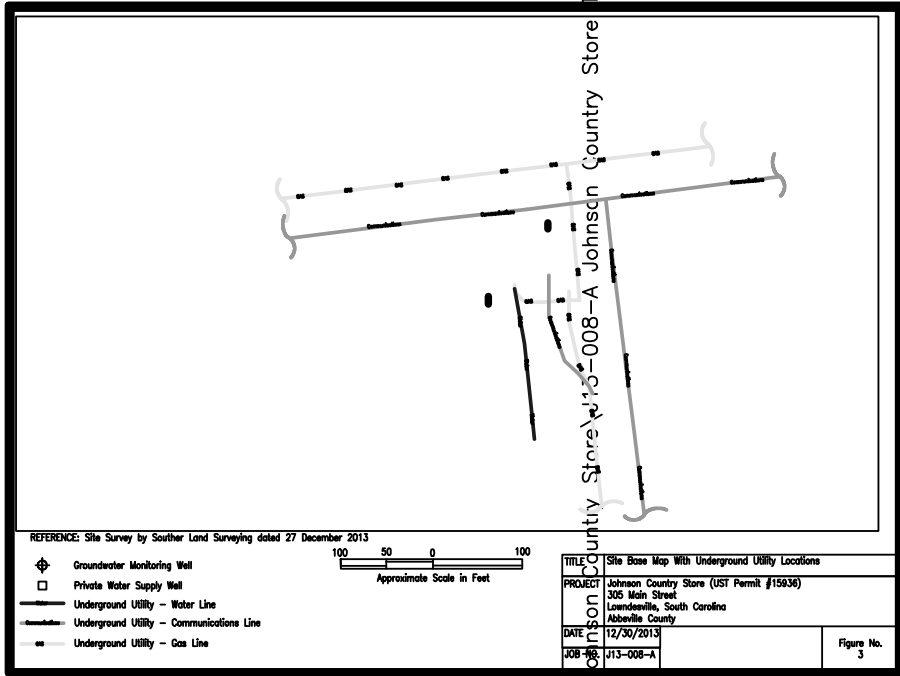
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Notes:  
 1) Groundwater samples collected on January 20, 2015.  
 2) Table presents analytical results for benzene, toluene, ethylbenzene, xylene, MDE, naphthalene, DDE, and 1,2-DCA only. Please refer to Table 2 for complete analytical results.

Parameter	Result
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
MDE	ND
Naphthalene	ND
DDE	ND
1,2-DCA	ND

Parameter	Result
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
MDE	ND
Naphthalene	ND
DDE	ND
1,2-DCA	ND

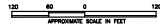
Parameter	Result
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
MDE	ND
Naphthalene	ND
DDE	ND
1,2-DCA	ND

Parameter	Result
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
MDE	ND
Naphthalene	ND
DDE	ND
1,2-DCA	ND

Parameter	Result
Benzene	ND
Toluene	ND
Ethylbenzene	ND
Xylene	ND
MDE	ND
Naphthalene	ND
DDE	ND
1,2-DCA	ND

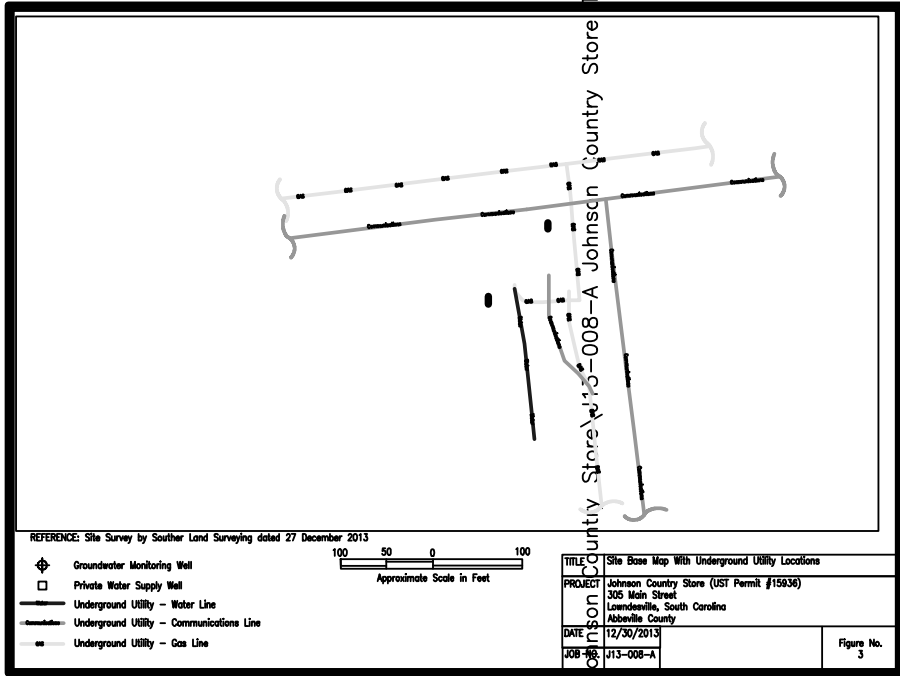
REFERENCE: Site Survey by Southern Land Surveying dated 14 February 2015

Groundwater Monitoring Well



Title	Groundwater OC Map - Deep Aquifer - January 2015
Project	Shoreline Service Station (S2) Permit (2008) 1377 N. Coast Street, Brentwood Brentwood, South Carolina Jasper County
Date	02/20/2015
Scale	1"=100'-0"
Figure No.	6b

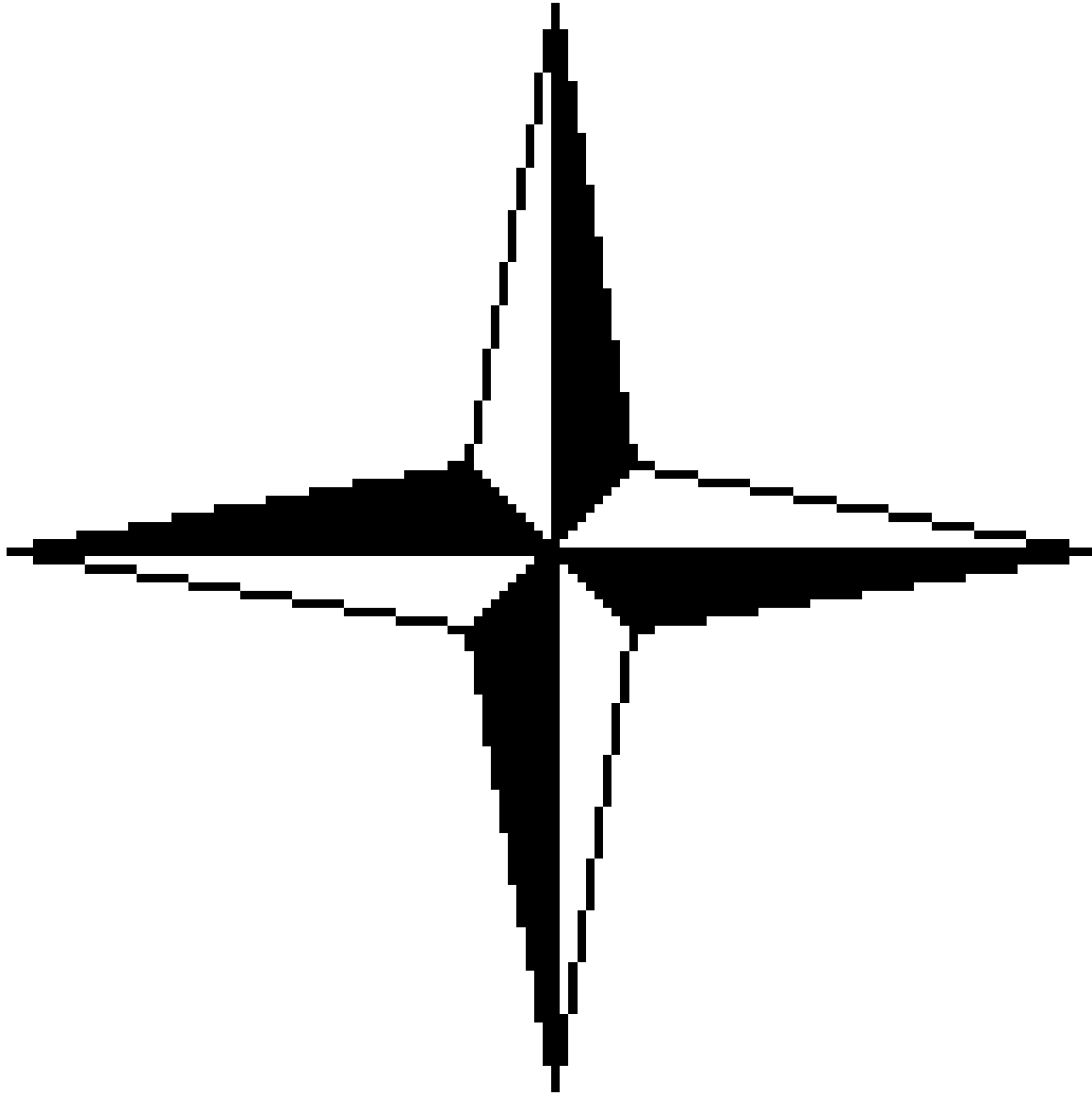
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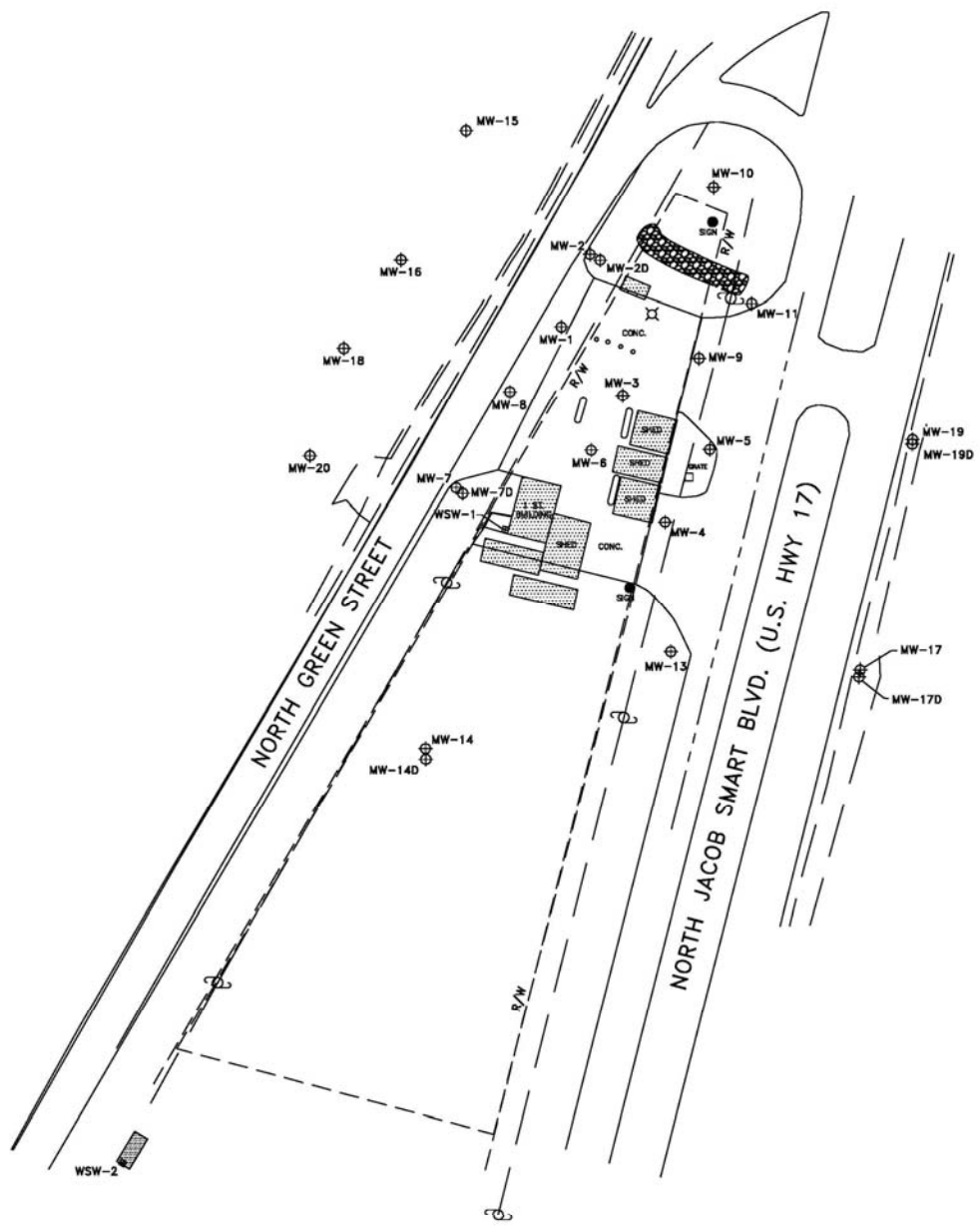
**ENVIRONMENTAL, LLC**

**ENGINEERS & CONSULTANTS**



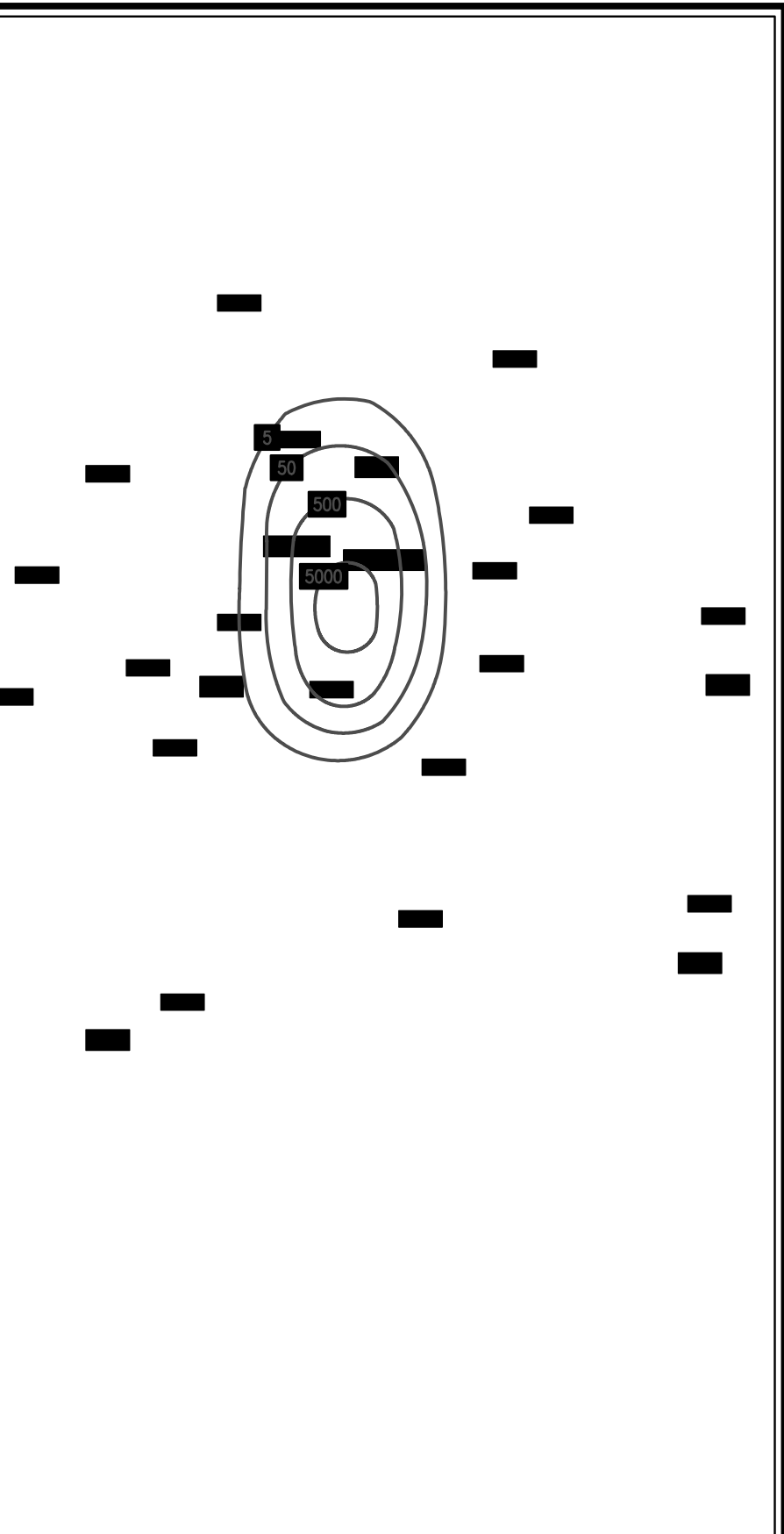
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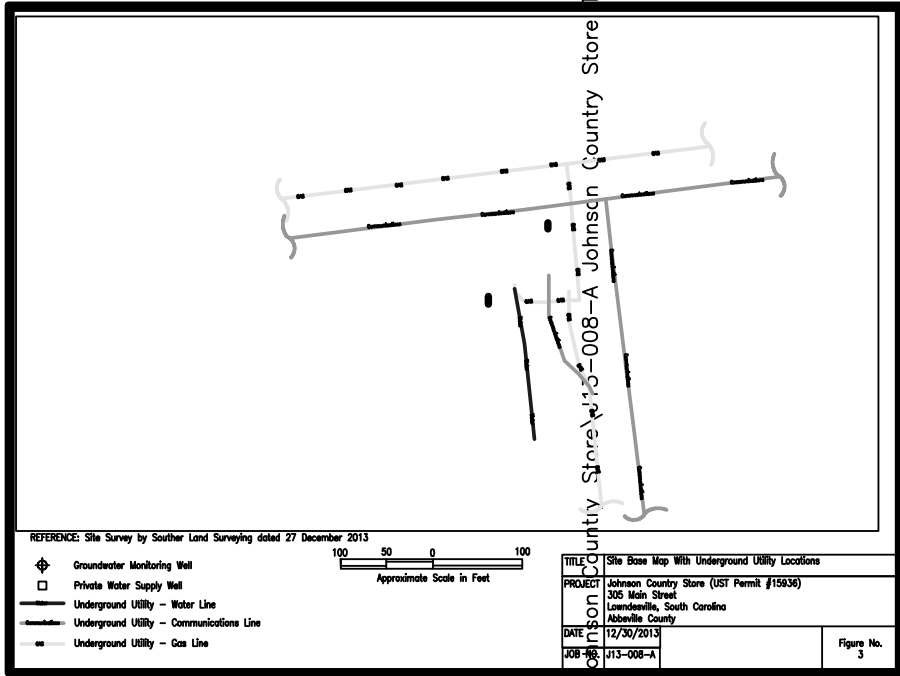








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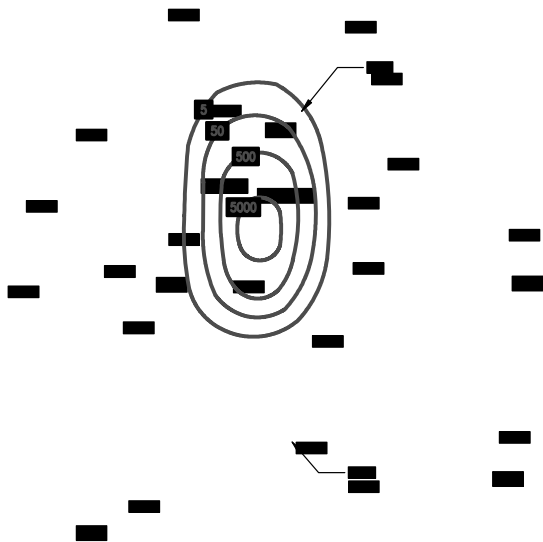
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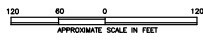






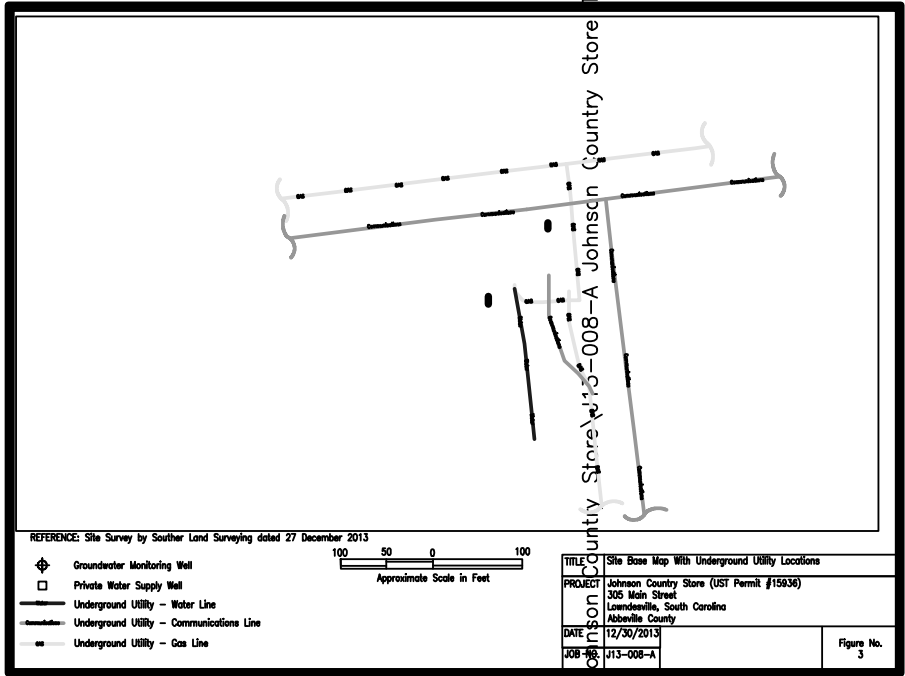


Survey by Souther Land Surveying dated 14 February 2015  
 Groundwater Monitoring Well  
 Benzene Concentration in Micrograms Per Liter  
 Not Used For Contouring Purposes Due To The Depth Of  
 Screened Interval  
 Benzene Isoconcentration Line



Title	Benzene Isoconcentration Map - January 2015	
Project	Burnette's Service Station (DOT Permit #05088) 3127 N. Brook Street Boulevard Ridgeland, South Carolina Jasper County	
Date	02/25/2015	
Job No.	214-080-A	Figure No. 7a

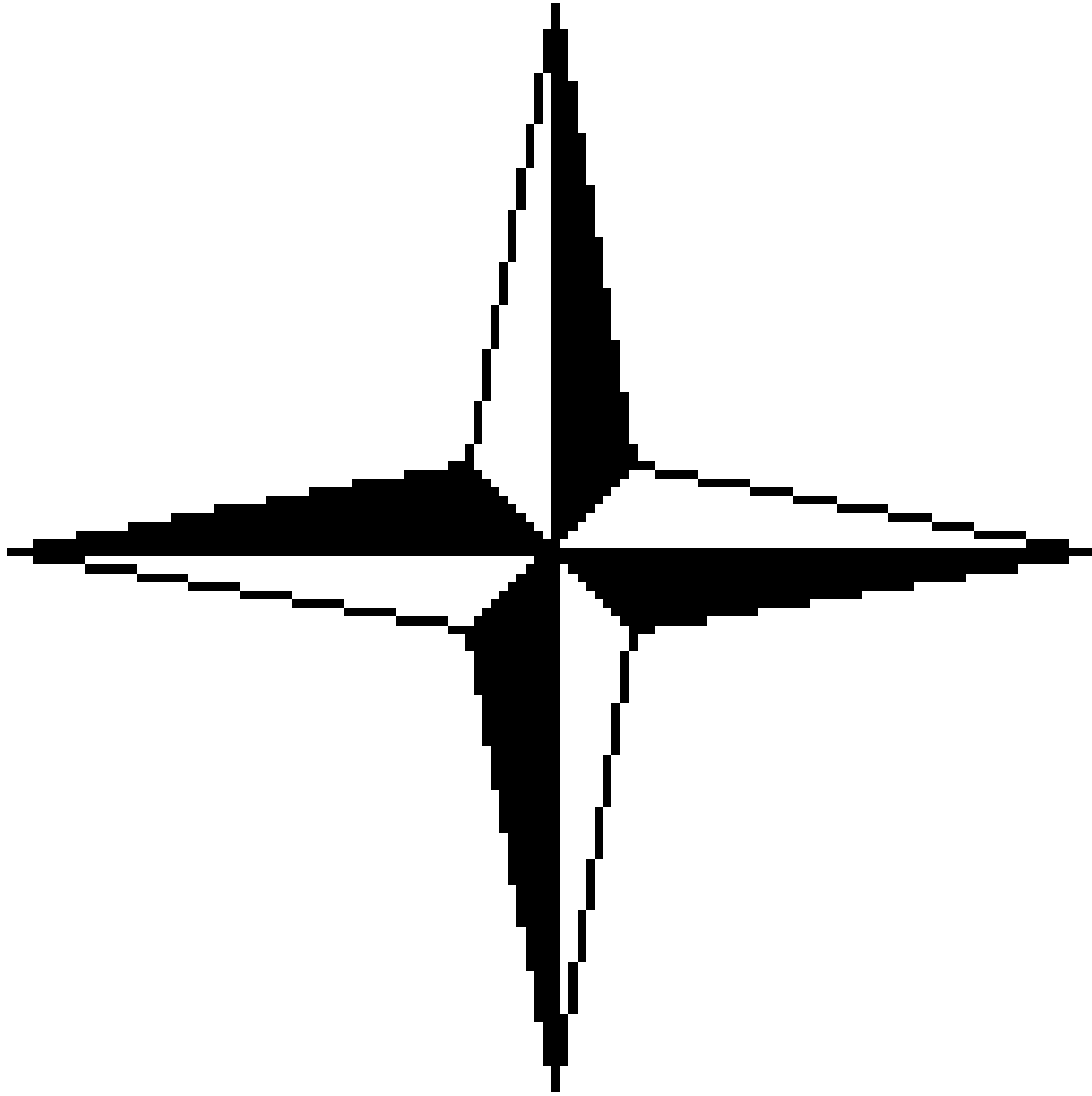
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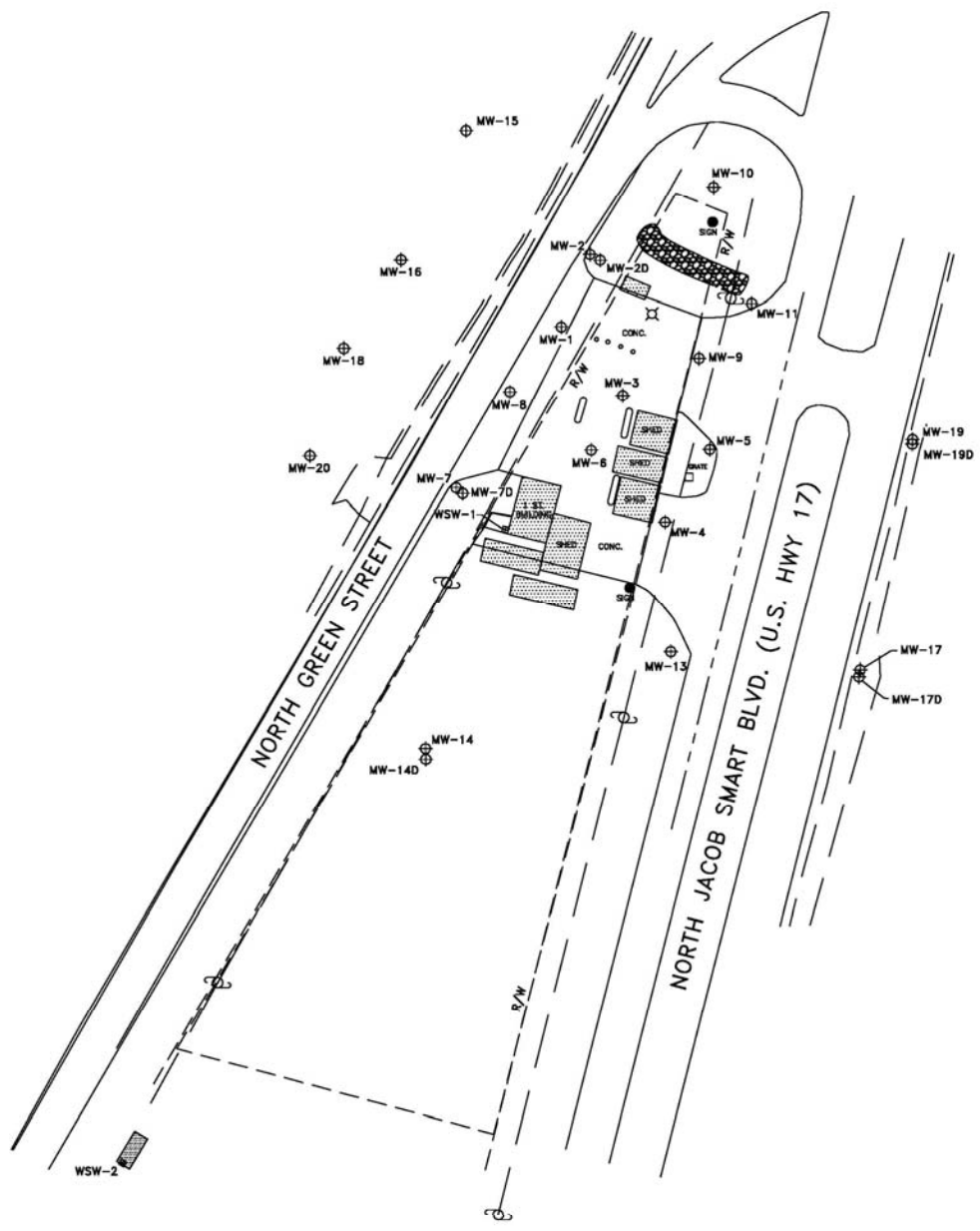
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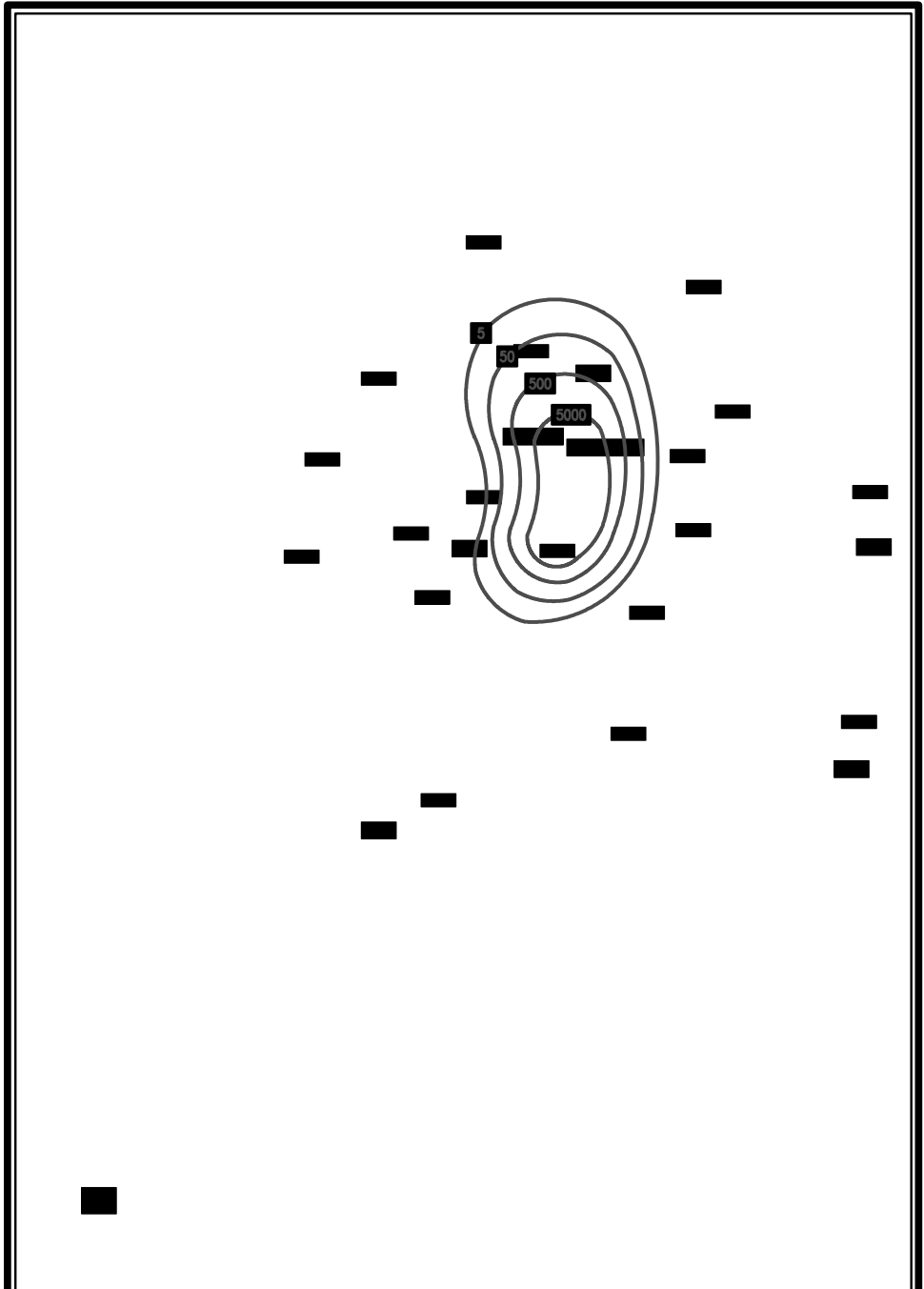
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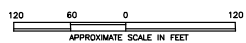






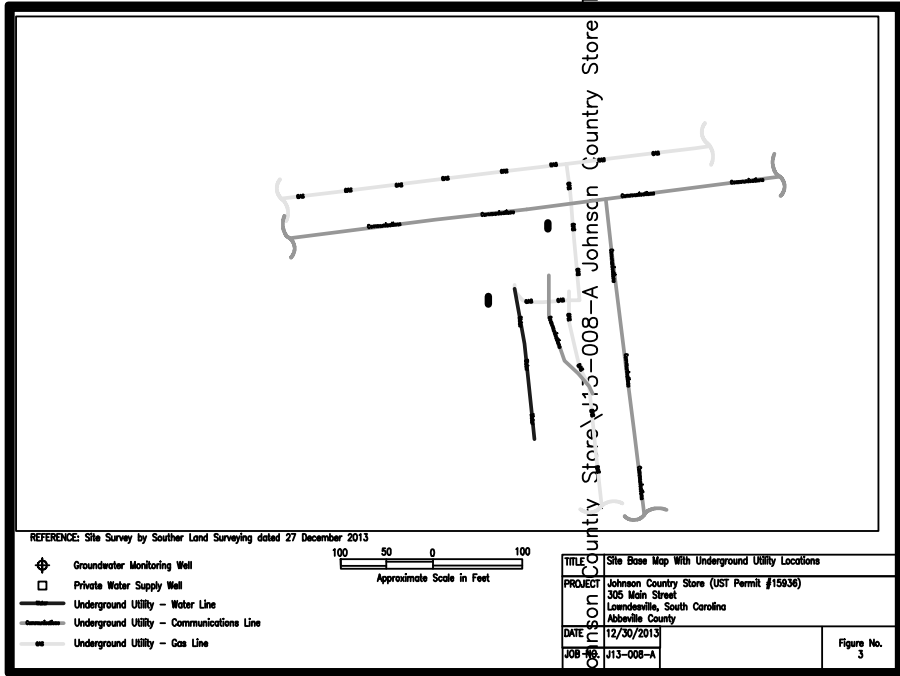
REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

-  Groundwater Monitoring Well
-  Toluene Concentration in Micrograms Per Liter
-  Toluene Concentration in Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval
-  Toluene Isoconcentration Line



Title	Toluene Isoconcentration Map - January 2015	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	02/25/2015	Figure No.

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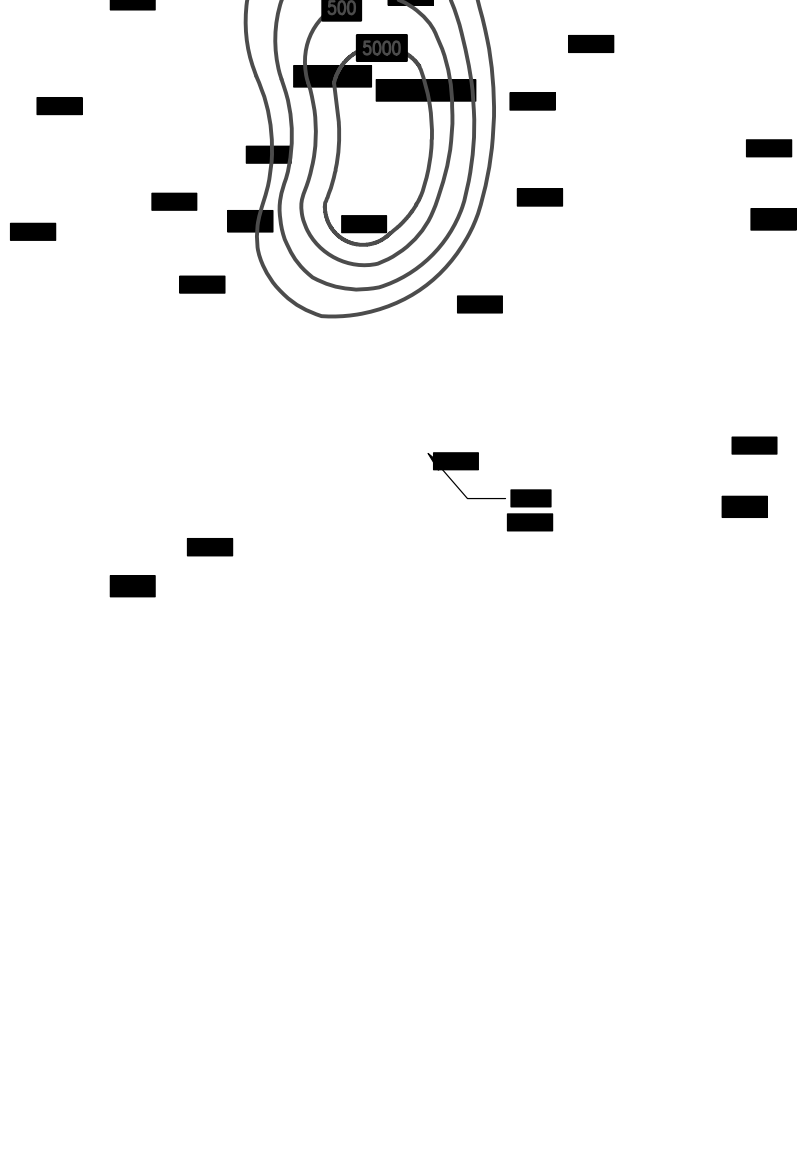


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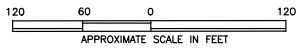




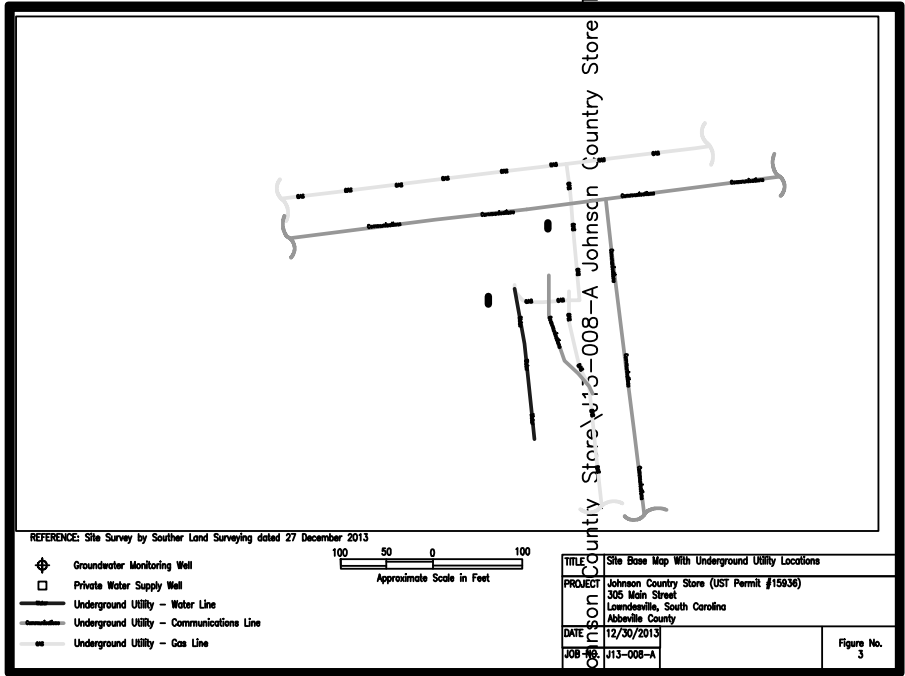


dated 14 February 2015

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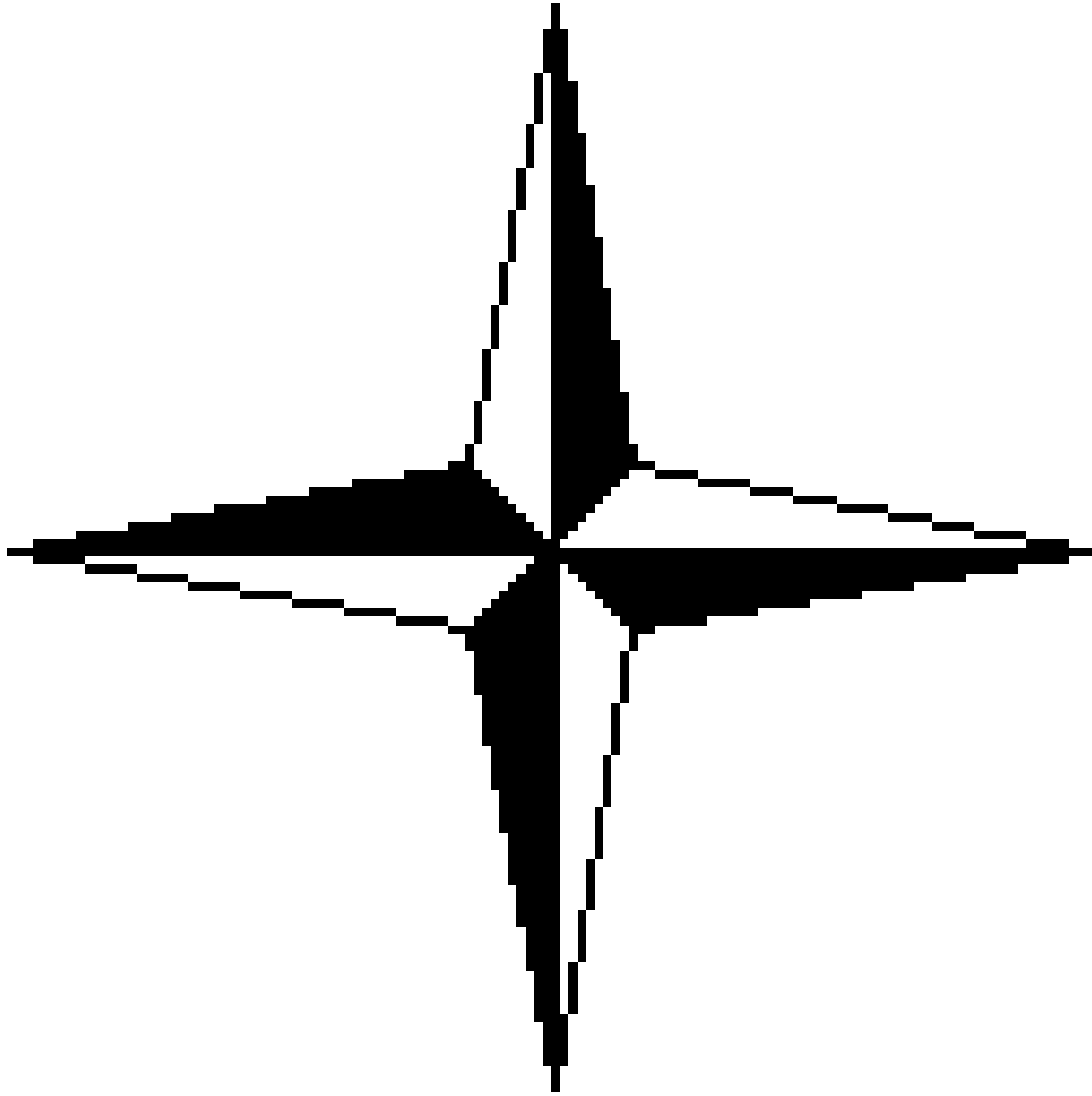
Title	Toluene Isoconcentration Map - January 2015	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacobs Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	02/25/2015	Figure No. 7b
Job No.	J14-080-A	



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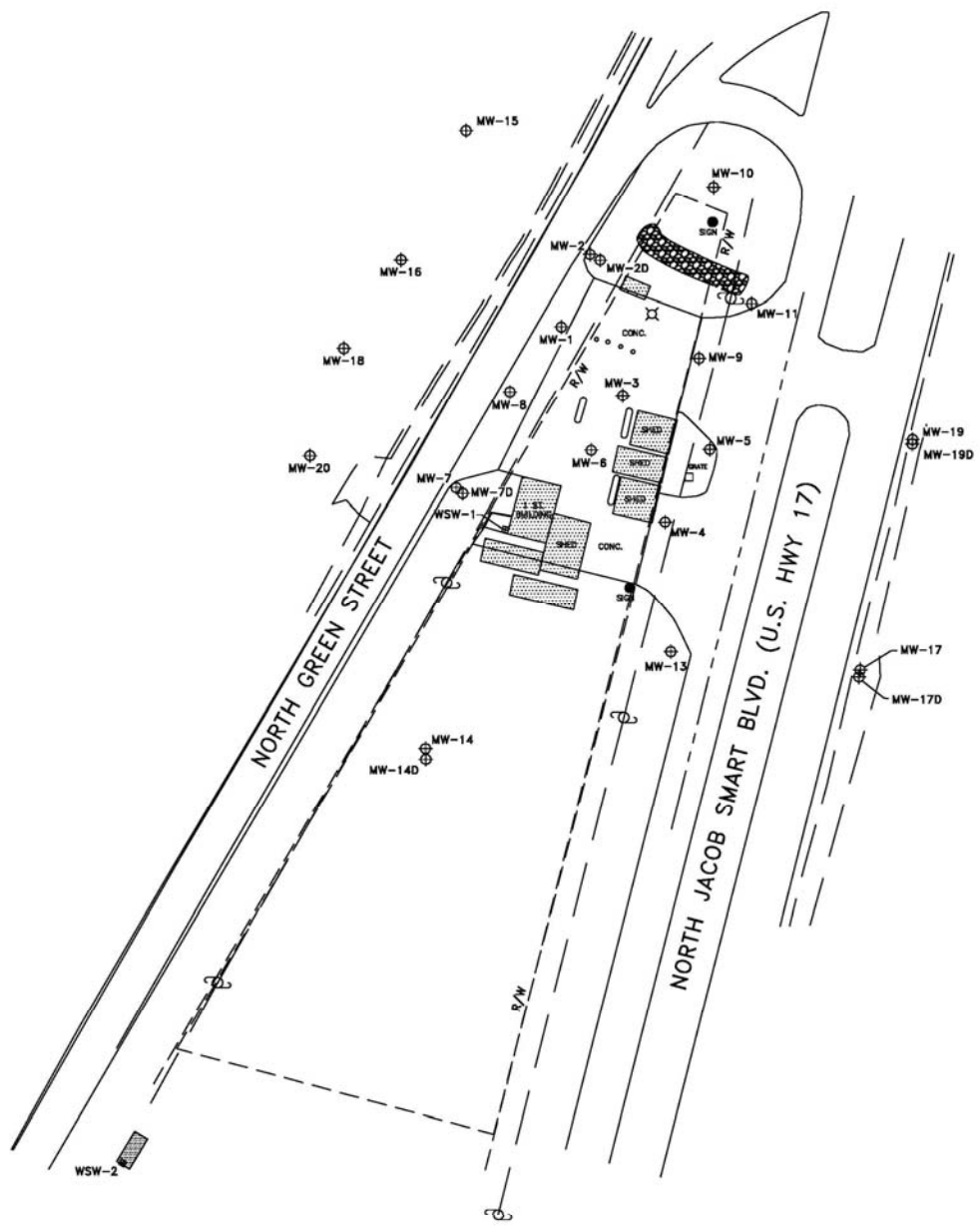
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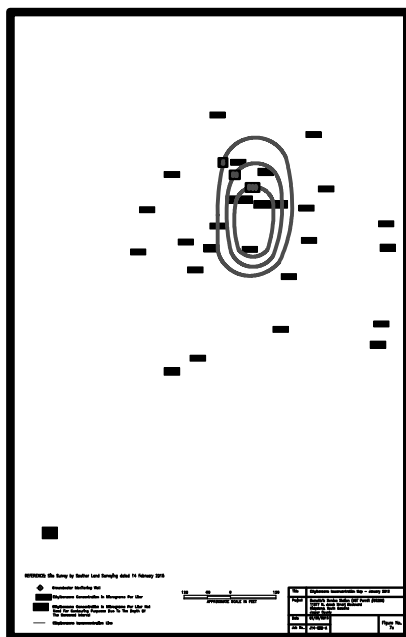
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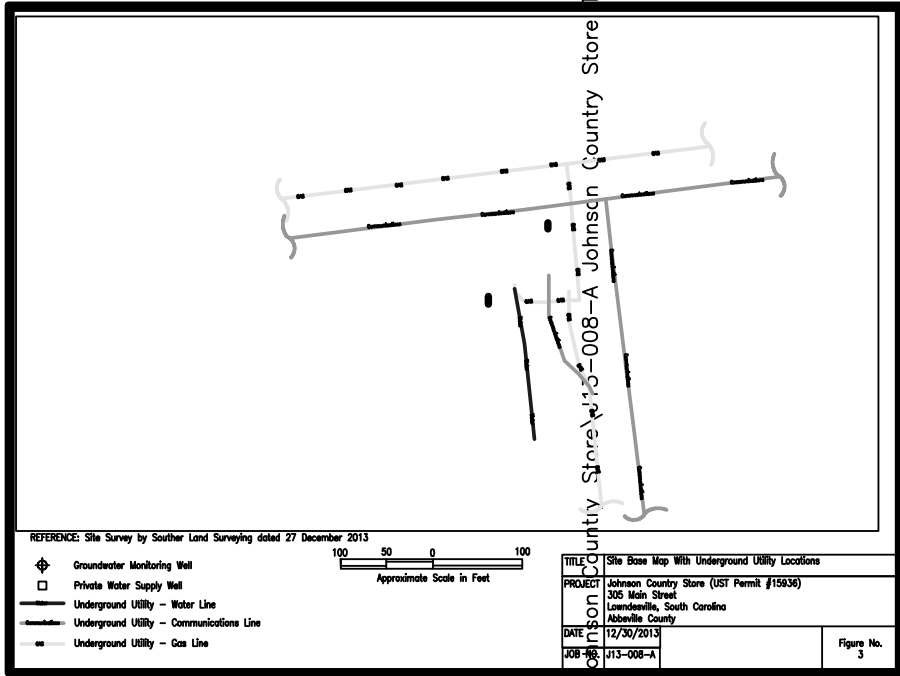








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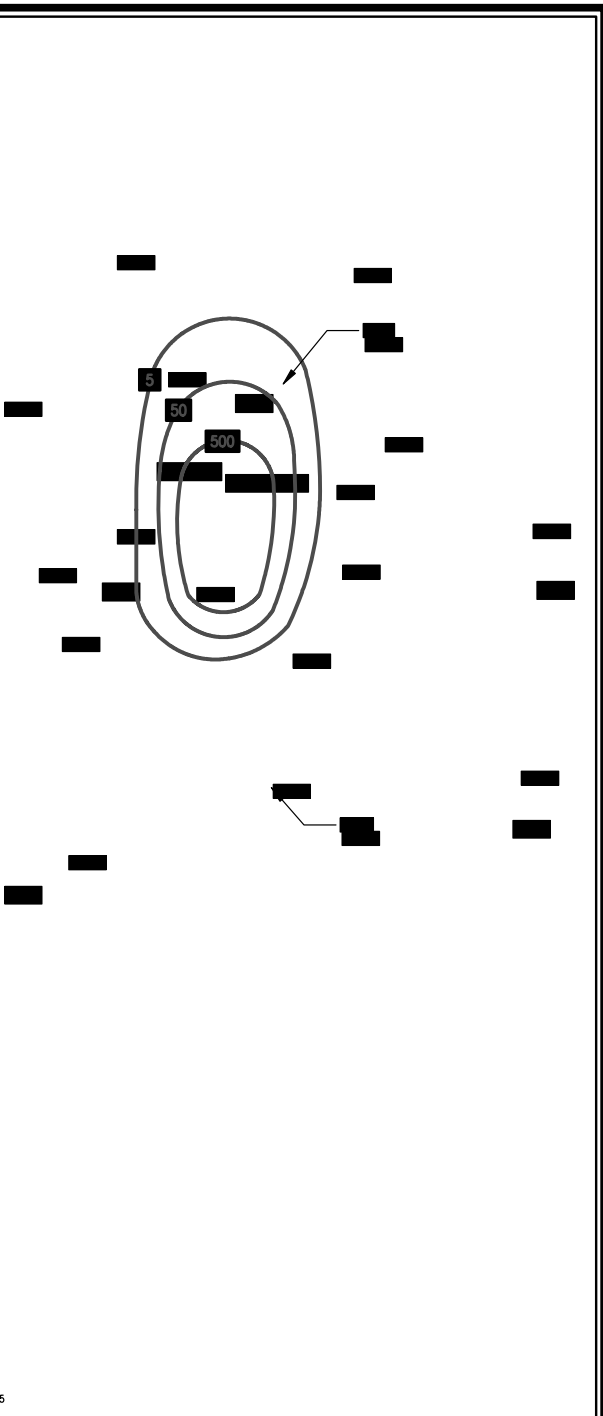
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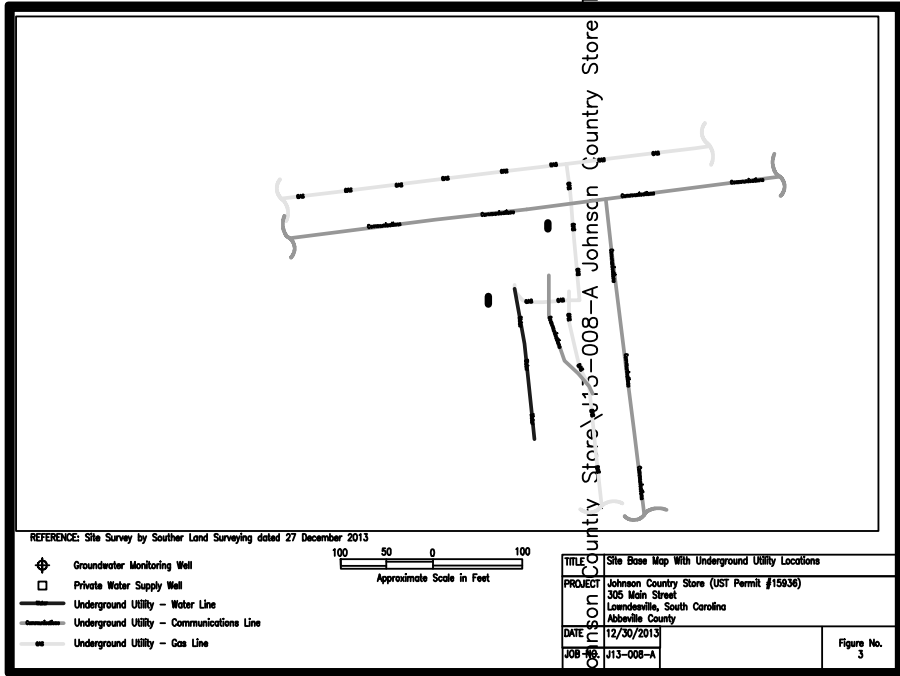








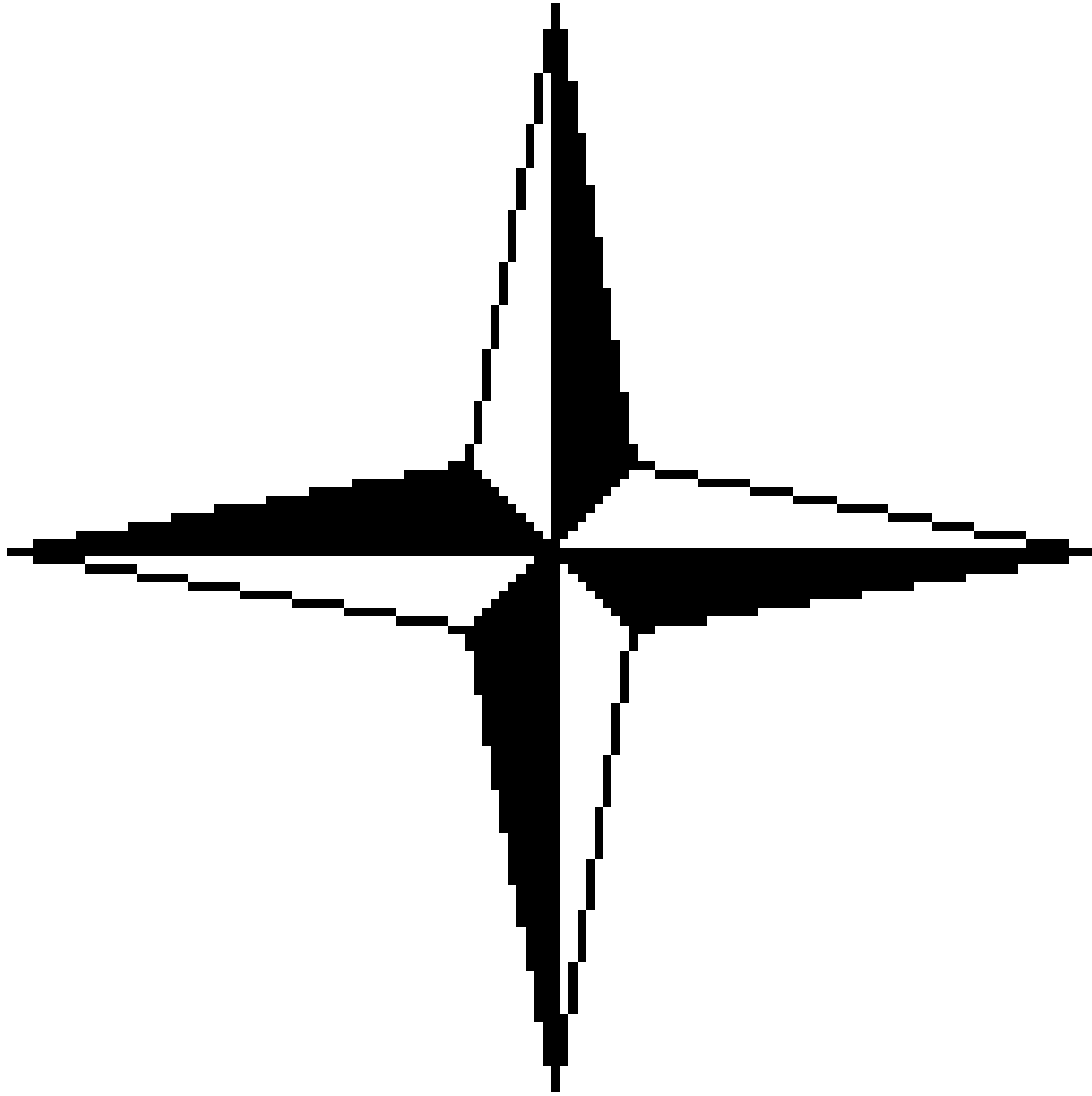
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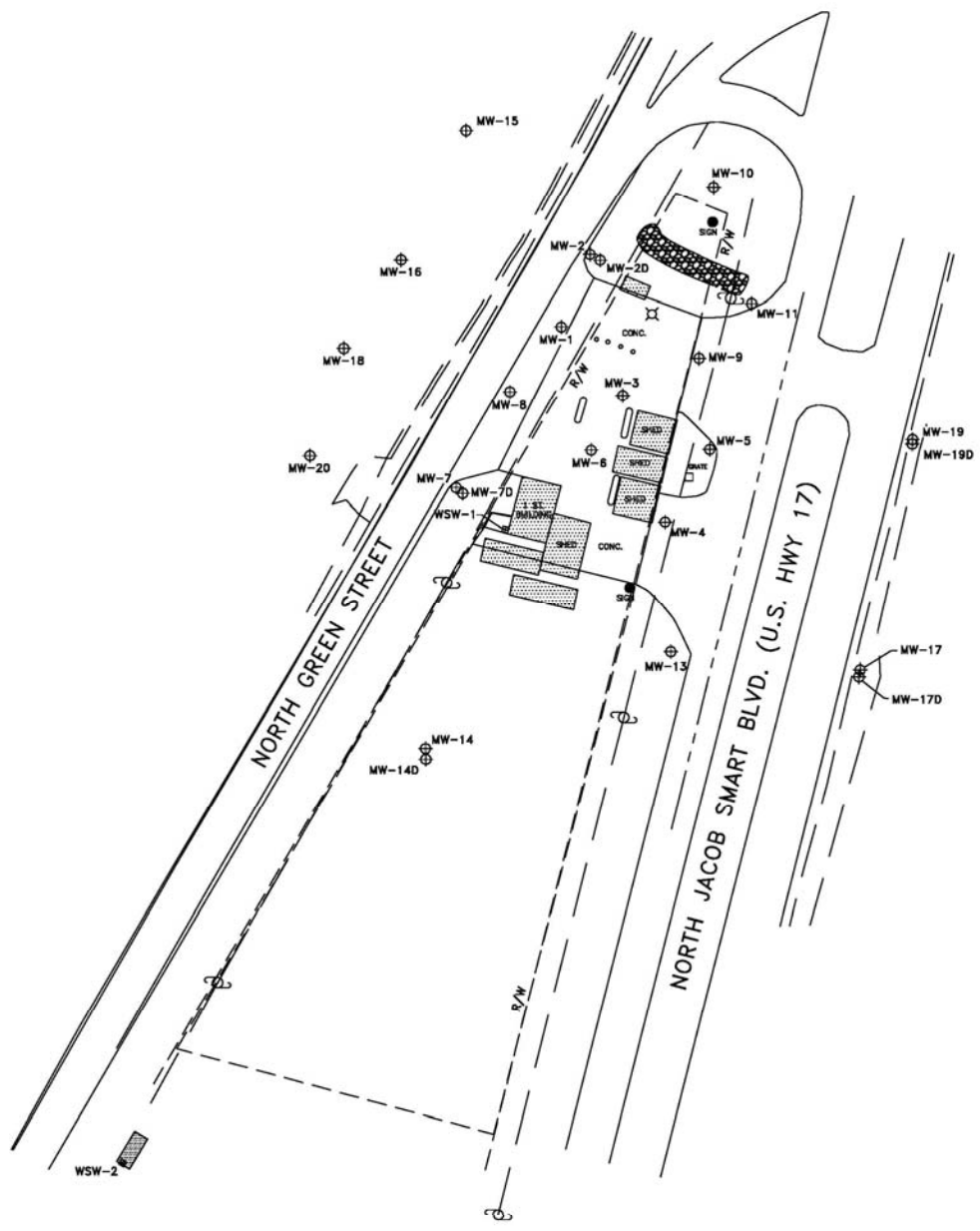


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**ENGINEERS & CONSULTANTS**

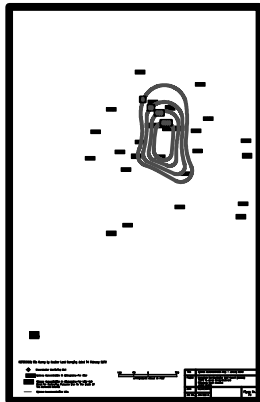
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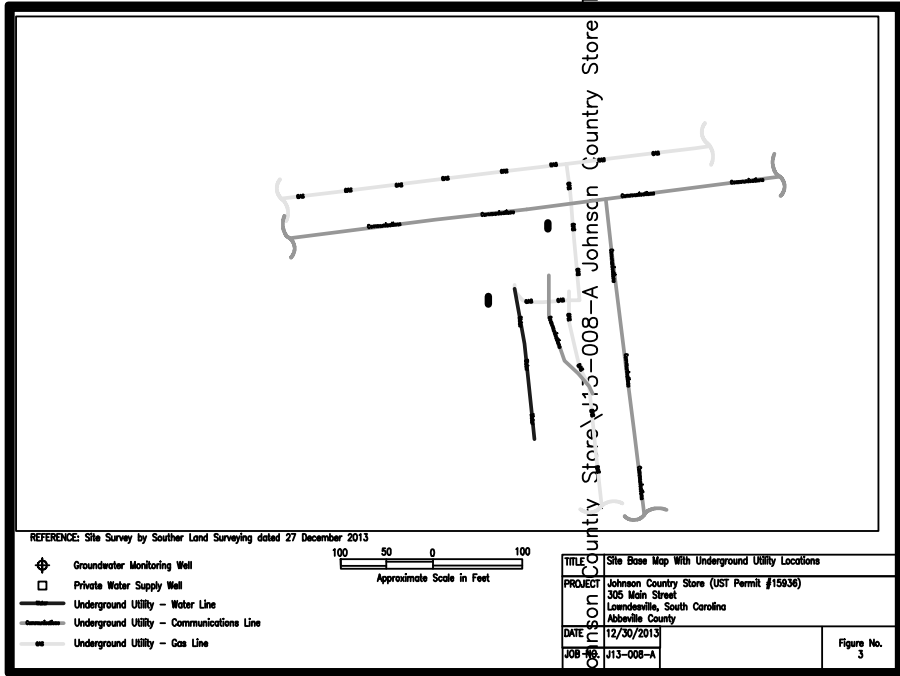








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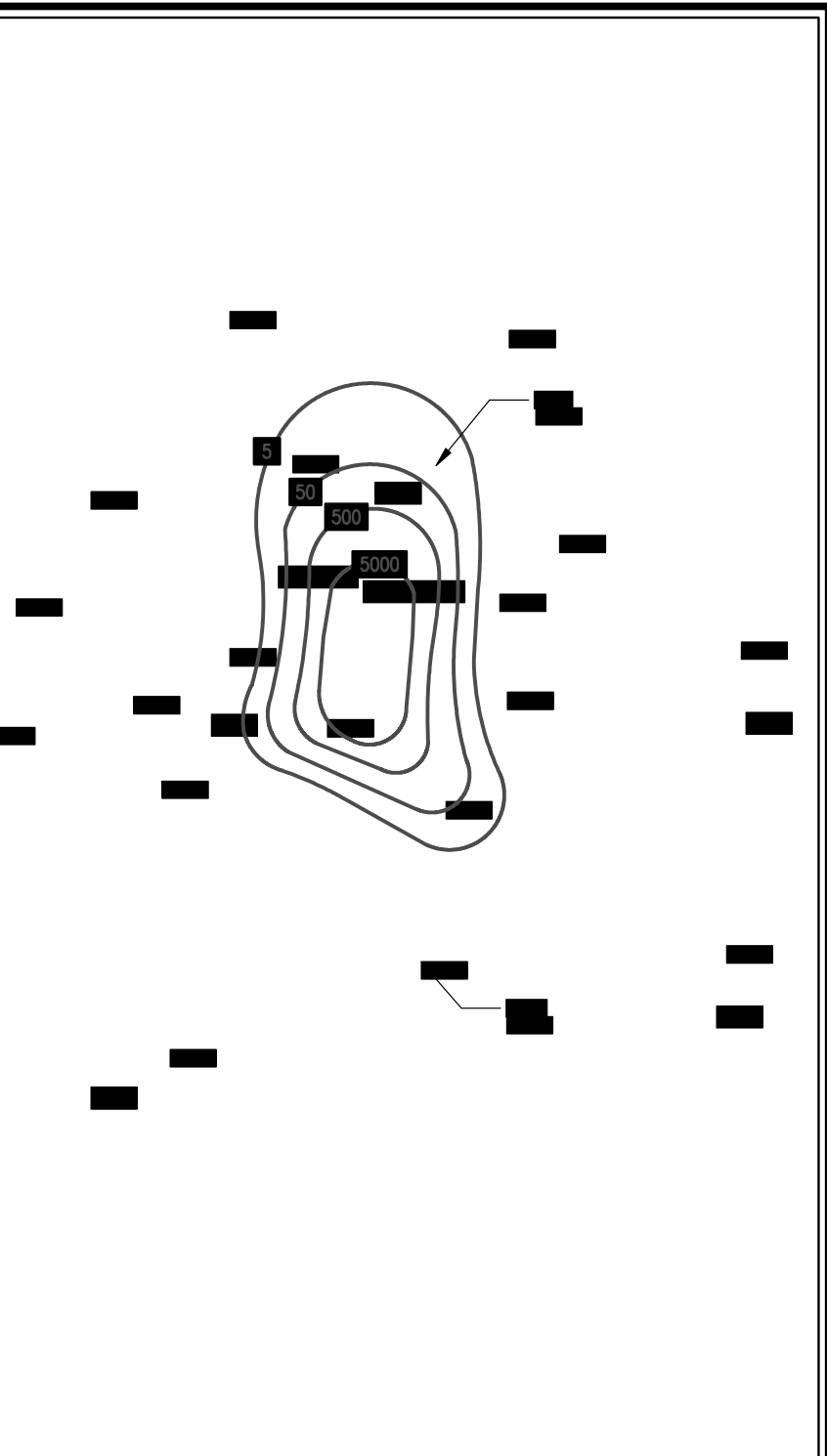


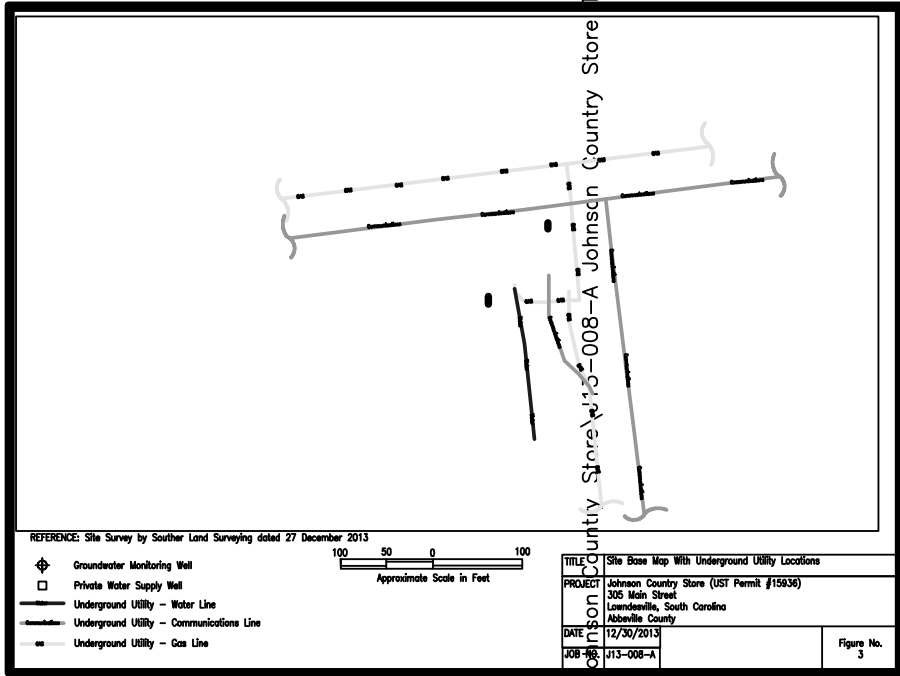
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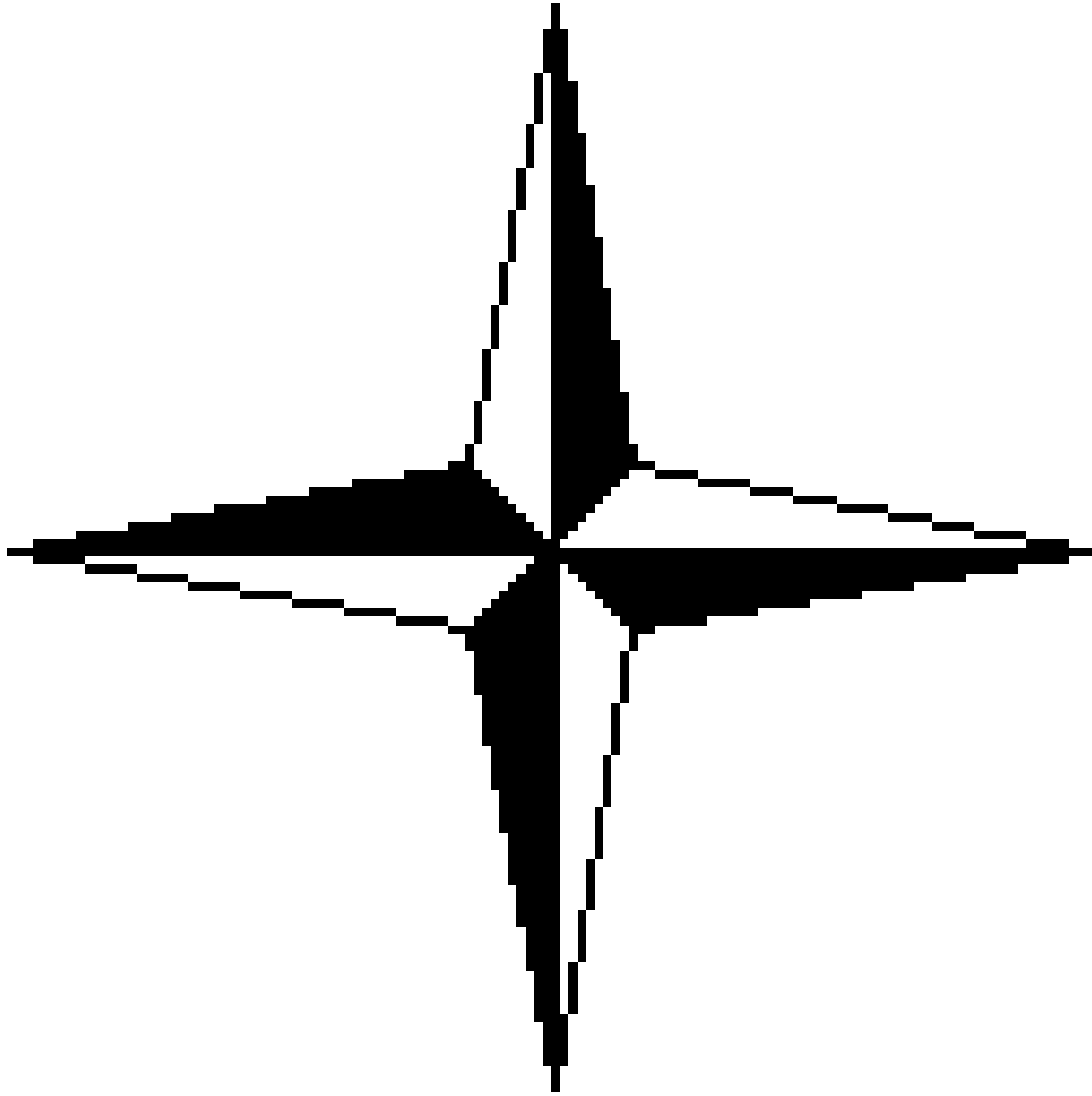






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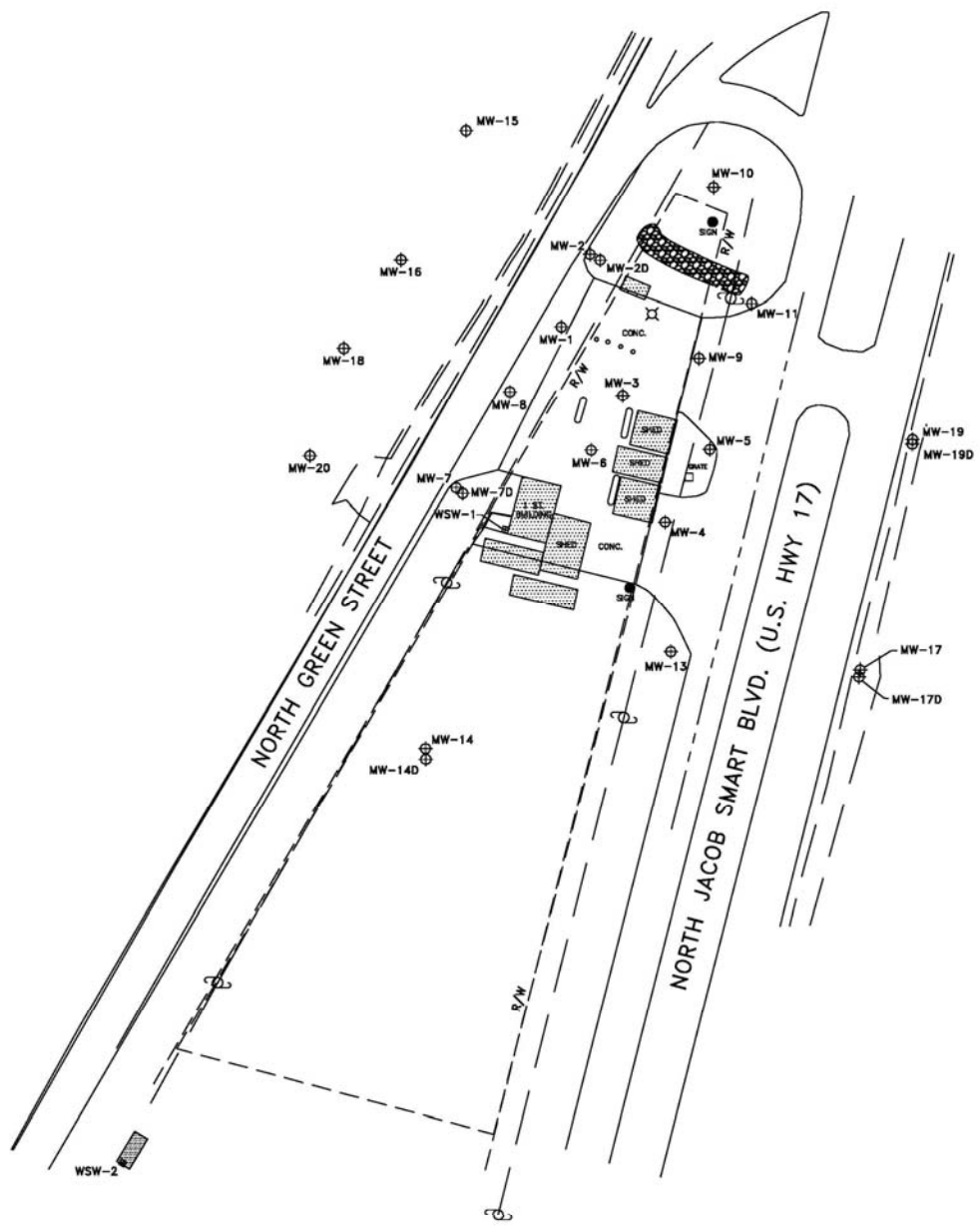
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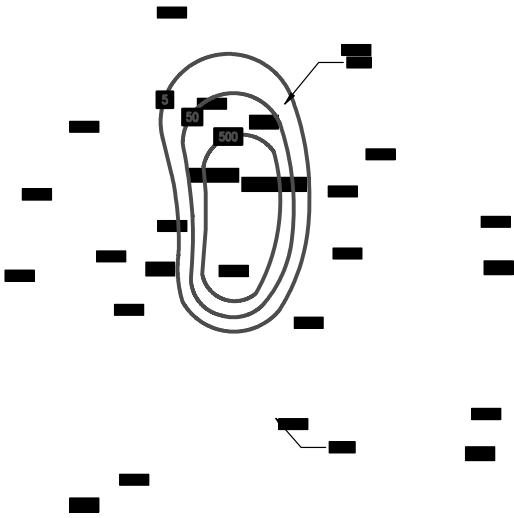
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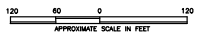






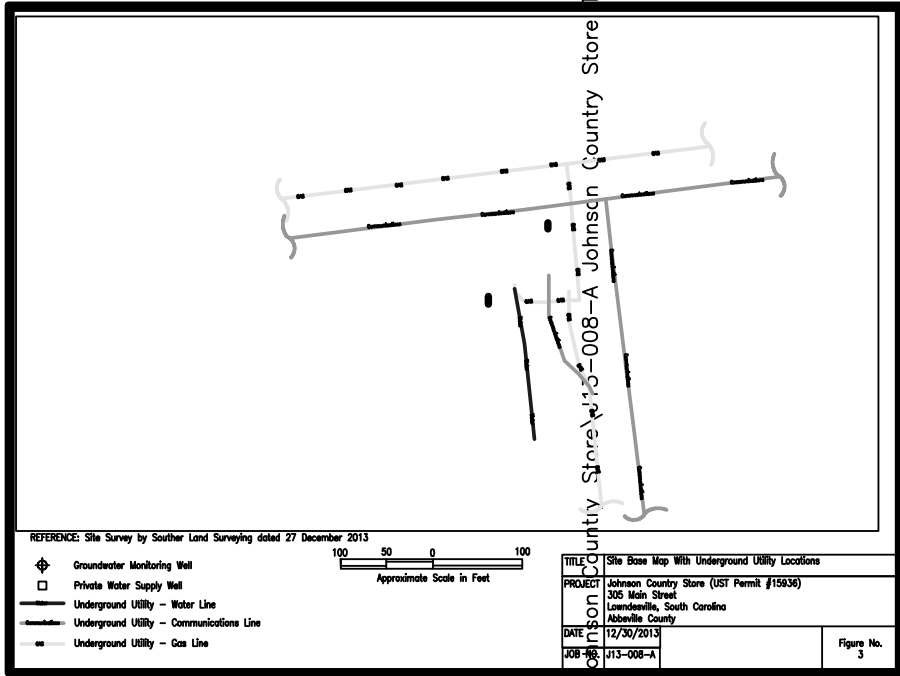
Other Land Surveying dated 14 February 2015

Starting Well  
 concentration in Micrograms Per Liter  
 concentration in Micrograms Per Liter Not  
 being Purposes Due To The Depth Of  
 level  
 concentration Line



Title	Nephthylene Isocentration Map - January 2015	
Project	Barnwell's Sewer Station (D2 Permit #00296) 11877 N. South Street Westport Bladen Co., South Carolina Jones County	
Date	02/25/2015	
Job No.	214-000-A	Figure No. 7a

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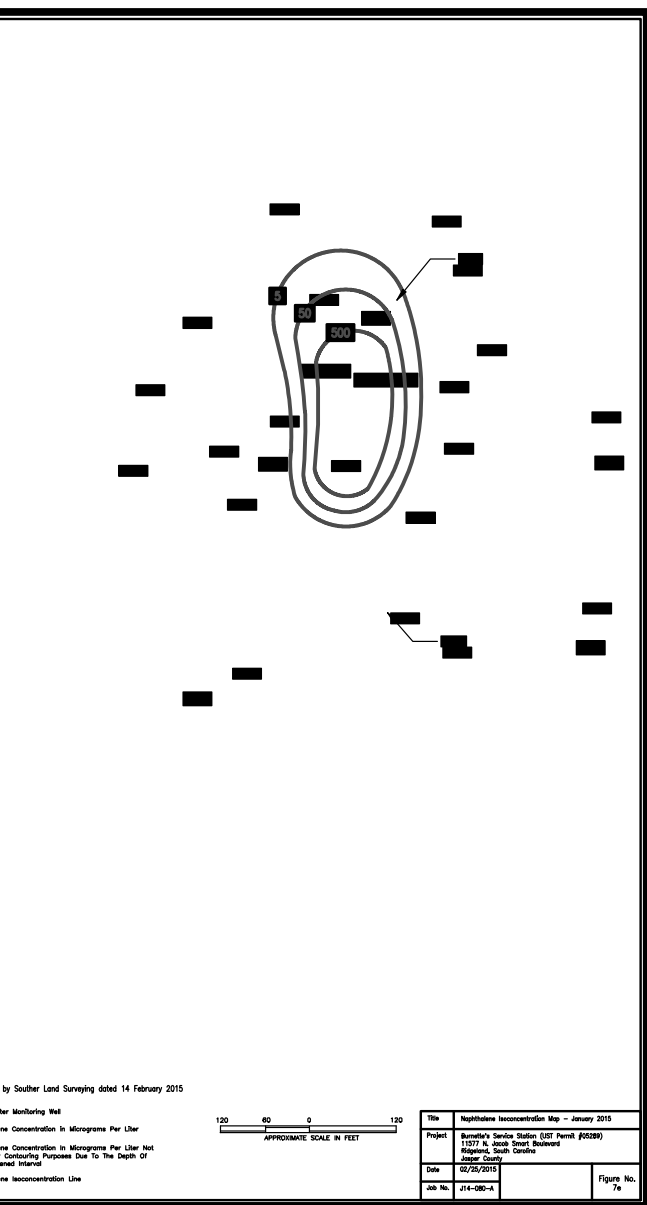
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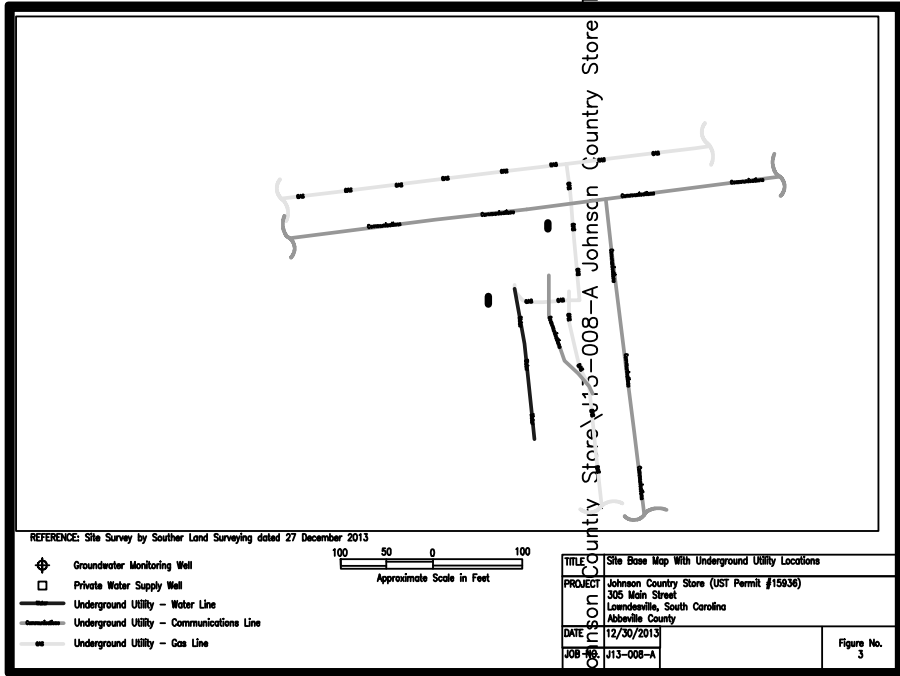








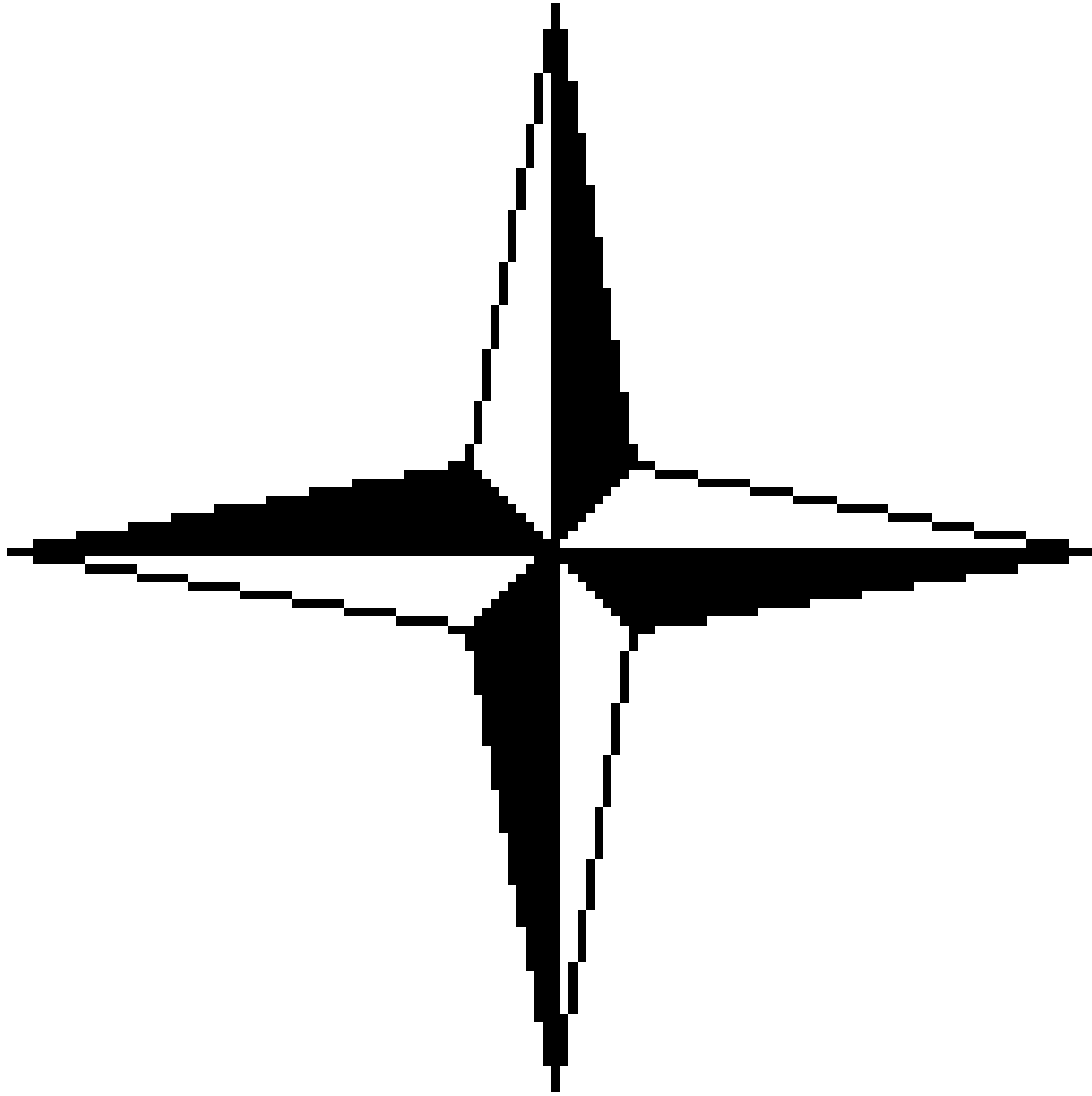
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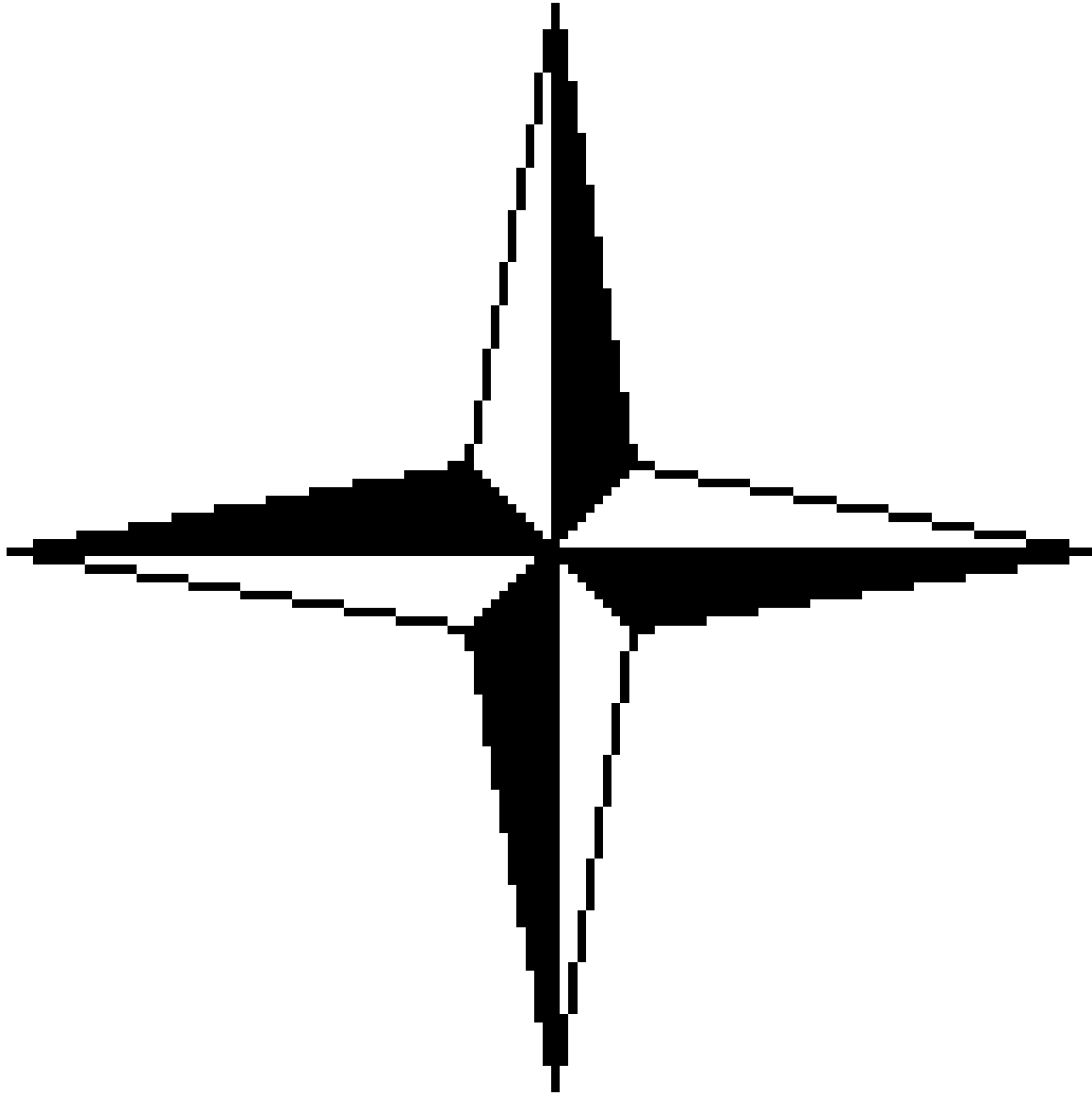
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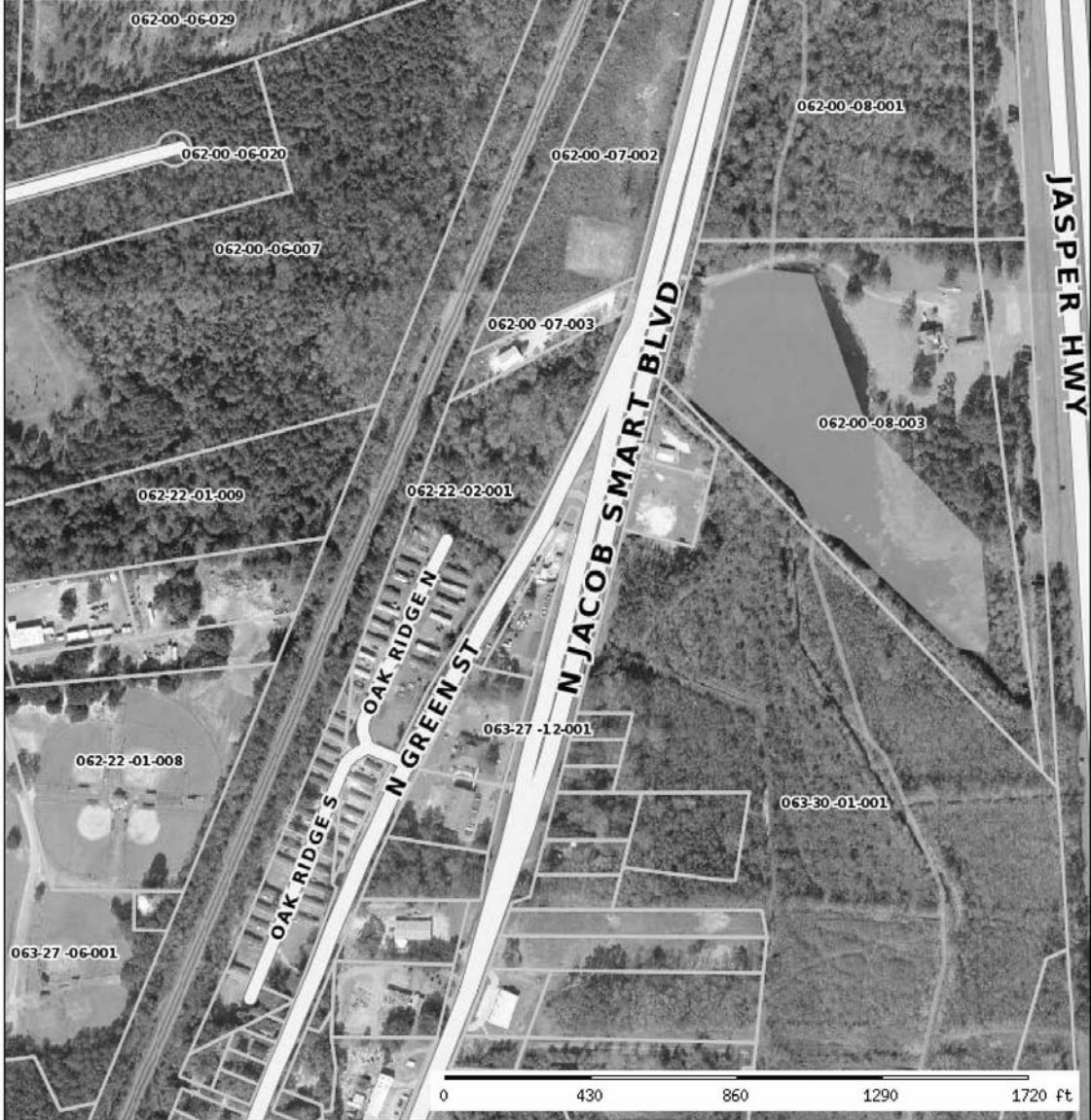
**ENVIRONMENTAL, LLC**

**ENGINEERS & CONSULTANTS**

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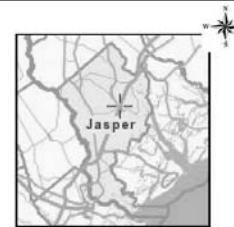




Jasper County Assessor

Parcel: 027-00 -02-034 Acres: 38354.39

Name:	OKEETEE CLUB	Land Value:	\$38,540,380.0
Site:	BJWSA. PLAT 26/249 (159.835)OUT	Improvement Value:	\$466,700.00
Sale:	\$387,500 on 05-2012 Reason= Qual=Q	Accessory Value:	\$0.00
Mail:	BOX 687	Total Value:	\$0.00
	RIDGELAND SC		
	, 29936		



Jasper 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.  
 Date printed: 02/25/15 : 09:25:19



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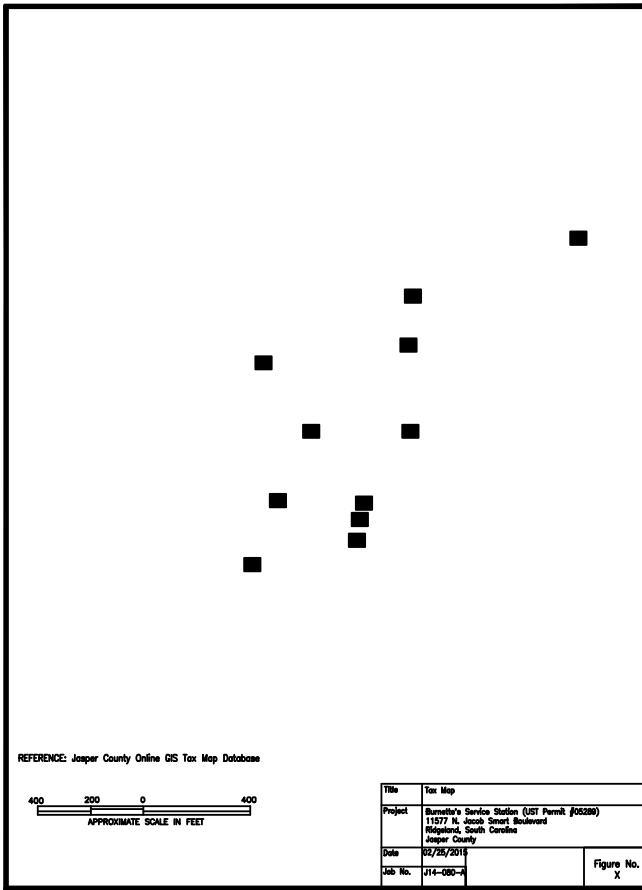
**ENVIRONMENTAL, LLC**

**ENGINEERS & CONSULTANTS**

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REFERENCE: Jasper County Online GIS Tax Map Database



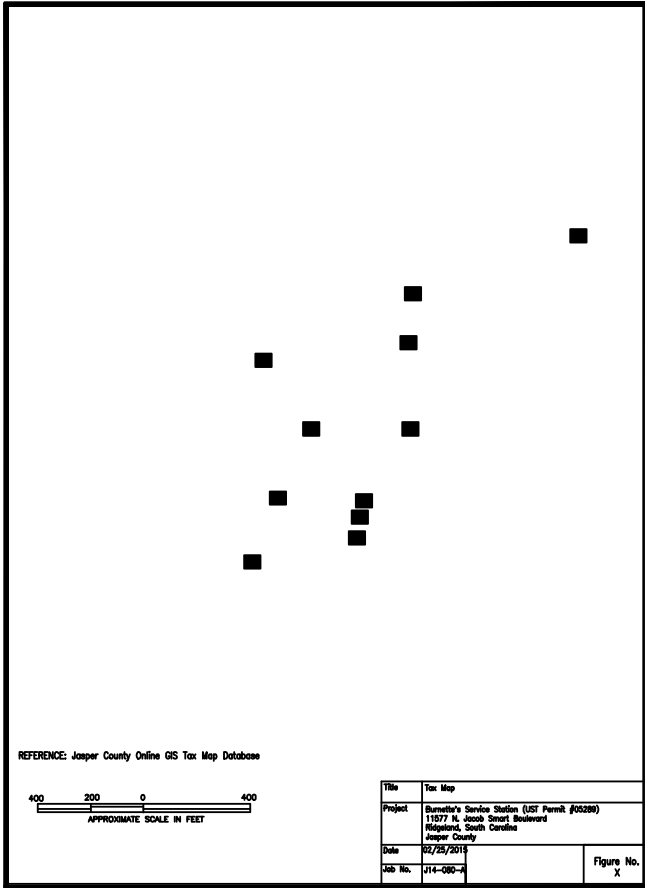
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Project	Burrell's Service Station (UST Permit #05280) 11577 N. Jacob Smart Boulevard Highland, South Carolina Jasper County	
Date	02/25/2011	
Job No.	J14-050-4	Figure No. X











REFERENCE: Jasper County Online GIS Tax Map Database



Title	Tax Map	
Project	Barnette's Service Station (EST Permit #05280) 11877 N. Jacob Smart Boulevard Highland, South Carolina Jasper County	
Date	02/25/2011	
Job No.	114-080-1	Figure No. X



**TABLE 1**  
**Summary of Groundwater Screening Results**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

	Groundwater Screening Sample													
	Method	RBSL (µg/L)	GW01	GW02	GW03	GW03D	GW04	GW05	GW06	GW07	GW07D	GW08	GW09	GW10
Boring Depth (ft bgs)	NA	NA	8	8	8	30	8	8	8	8	20	8	8	8
Depth-to-Groundwater (ft bgs)	NA	NA	5	5	5	5	5	5	5	5	5	5	5	5
Sample Depth (ft bgs)	NA	NA	4-8	4-8	4-8	26-30	4-8	4-8	4-8	4-8	16-20	4-8	4-8	4-8
PID Reading (ppm)	NA	NA	602	391	27	2.7	12.6	6.9	0.8	39	51	2.7	0.6	21
Benzene (µg/L)	8260B	5	1500	NT	0.34	0.34	NT	3.8	ND	3.3	0.46	NT	NT	NT
Toluene (µg/L)	8260B	1,000	24000	NT	14	12	NT	36	1.1	480	100	NT	NT	NT
Ethylbenzene (µg/L)	8260B	700	2100	NT	5.7	4.6	NT	8.2	ND	260	46	NT	NT	NT
Xylenes (µg/L)	8260B	10,000	13000	NT	42	44	NT	33	1.9	890	190	NT	NT	NT
Naphthalene (µg/L)	8260B	25	650	NT	6.3	0.70	NT	3.0	ND	110	16	NT	NT	NT
1,2-DCA (µg/L)	8260B	5	ND	NT	ND	ND	NT	ND	ND	ND	ND	NT	NT	NT
MTBE (µg/L)	8260B	40	ND	NT	7.3	0.79	NT	2.9	0.97	ND	ND	NT	NT	NT

	Groundwater Screening Sample												
	Method	RBSL (µg/L)	GW11	GW11D	GW12	GW13	GW14	GW15	GW16	GW17	GW17D	GW18	GW19
Boring Depth (ft bgs)	NA	NA	8	18	8	8	8	8	8	8	18	8	8
Depth-to-Groundwater (ft bgs)	NA	NA	5	5	5	5	5	5	5	5	5	5	5
Sample Depth (ft bgs)	NA	NA	4-8	14-18	4-8	4-8	4-8	4-8	4-8	4-8	14-18	4-8	4-8
PID Reading (ppm)	NA	NA	0.7	0.9	10.5	0.0	0.0	0.1	0.0	0.8	0.5	0.1	0.3
Benzene (µg/L)	8260B	5	ND	ND	4.1	ND	NT	ND	NT	ND	ND	NT	ND
Toluene (µg/L)	8260B	1,000	2.7	4.5	24	ND	NT	ND	NT	1.9	1.6	NT	1.9
Ethylbenzene (µg/L)	8260B	700	1.8	2.6	7.9	ND	NT	ND	NT	1.4	1.3	NT	ND
Xylenes (µg/L)	8260B	10,000	8.3	10	50	ND	NT	ND	NT	5.7	3.4	NT	ND
Naphthalene (µg/L)	8260B	25	1.1	0.55	100	ND	NT	ND	NT	ND	ND	NT	ND
1,2-DCA (µg/L)	8260B	5	ND	ND	ND	ND	NT	ND	NT	ND	ND	NT	ND
MTBE (µg/L)	8260B	40	ND	ND	2.8	ND	NT	ND	NT	ND	ND	NT	ND

**NOTES:**

RBSL - Risk Based Screening Level

Shaded values indicate concentrations exceeding RBSLs.

PID - MiniRac Lite Photoionization Detector

ppm - parts per million

ft bgs - feet below ground surface

NA - Not Applicable

NT - Not Tested. Sample not submitted for laboratory analysis

**TABLE 2**  
**Monitoring Well and Groundwater Surface Elevation Data**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Groundwater Depth Below Top-of-Casing	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
05289-MW01	23.37	23.05	6/17/14	3.76	19.29	12.00	2.00 - 12.00	21.37 - 11.37
			1/29/15	2.24	20.81			
05289-MW02	23.59	23.21	1/29/15	3.01	20.20	13.88	3.68 - 13.68	19.91 - 9.91
05289-MW02D	23.13	22.79	1/29/15	3.78	19.01	30.00	24.80 - 29.80	-1.67 - -6.67
05289-MW03	23.64	23.49	1/29/15	3.08	20.41	13.32	3.12 - 13.12	20.52 - 10.52
05289-MW04	23.26	22.93	1/29/15	2.41	20.52	13.79	3.59 - 13.59	19.67 - 9.67
05289-MW05	22.50	22.14	1/29/15	2.88	19.26	13.86	3.66 - 13.66	18.84 - 8.84
05289-MW06	24.14	23.73	1/29/15	2.56	21.17	13.49	3.29 - 13.29	20.85 - 10.85
05289-MW07	24.32	23.94	1/29/15	2.64	21.30	13.95	3.75 - 13.75	20.57 - 10.57
05289-MW07D	24.34	23.96	1/29/15	5.32	18.64	32.49	27.29 - 32.29	-2.95 - -7.95
05289-MW08	24.00	23.76	1/29/15	2.70	21.06	13.65	3.45 - 13.45	20.55 - 10.55
05289-MW09	22.64	22.30	1/29/15	2.02	20.28	13.96	3.76 - 13.76	18.88 - 8.88
05289-MW10	21.39	21.07	1/29/15	0.47	20.60	13.62	3.42 - 13.42	17.97 - 7.97
05289-MW11	21.75	21.41	1/29/15	0.73	20.68	13.85	3.65 - 13.65	18.10 - 8.10
05289-MW13	22.29	21.96	1/29/15	1.36	20.60	13.82	3.62 - 13.62	18.67 - 8.67
05289-MW14	25.01	24.40	1/29/15	1.28	23.12	13.92	3.72 - 13.72	21.29 - 11.29
05289-MW14D	24.87	24.55	1/29/15	8.80	15.75	23.77	18.57 - 23.57	6.30 - 1.30
05289-MW15	20.76	20.33	1/29/15	0.00	20.33	13.84	3.64 - 13.64	17.12 - 7.12
05289-MW16	20.95	24.35	1/29/15	3.42	20.93	12.05	1.85 - 11.85	19.10 - 9.10
05289-MW17	22.48	22.17	1/29/15	1.92	20.25	13.91	3.71 - 13.71	18.77 - 8.77
05289-MW17D	22.42	22.28	1/29/15	7.61	14.67	30.51	25.31 - 30.31	-2.89 - -7.89
05289-MW18	21.49	24.44	1/29/15	3.04	21.40	12.58	2.38 - 12.38	19.11 - 9.11
05289-MW19	22.38	22.14	1/29/15	2.01	20.13	14.00	3.80 - 13.80	18.58 - 8.58
05289-MW19D	22.41	22.18	1/29/15	5.43	16.75	32.14	26.94 - 31.94	-4.53 - -9.53
05289-MW20	22.16	21.94	1/29/15	0.00	21.94	13.37	3.17 - 13.17	18.99 - 8.99

**NOTES:**

Measurements are in feet  
BGS - below ground surface  
Elevations are NAVD 88

**TABLE 3**  
**Summary of Groundwater Analytical Results**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15
05289-MW01	06/17/14	470	1700	420	760	<100	940	<0.020	NT	NT	NT	NT	NT	NT	NT	NT	NT	12
	01/29/15	430	810	410	590	<4.0	520	<0.020	<1.5	<2.0	<10	<2.0	<4.0	<330	<10	<67	160 J	<2.1
	01/29/15 DUP	470	1300	480	820	<4.0	590	<0.020	<1.5	<2.0	<10	<2.0	<4.0	<330	<10	<67	180 J	2.5 J
05289-MW02	01/29/15	21	78	45	120	2.6 J	230	<0.020	<0.74	<1.0	<5.0	<1.0	<2.0	<170	<5.0	55 J	36 J	23
05289-MW02D	01/29/15	7.8	200	120	420	<2.0	98	<0.020	<0.74	<1.0	<5.0	<1.0	<2.0	<170	<5.0	61 J	<34	<2.1
05289-MW03	01/29/15	6400	39000	3700	19000	<200	1000	0.055	<74	<100	<500	<100	<200	<17000	<500	<3400	<3400	58
	01/29/15 DUP	6500	39000	3300	17000	<200	2400	0.059	<74	<100	<500	<100	<200	<17000	<500	<3400	<3400	52
05289-MW04	01/29/15	2.9	<0.33	<0.33	74	1.4	1.1	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	6.8 J	2.7 J
05289-MW05	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1
05289-MW06	01/29/15	3500	27000	2200	13000	<80	1200	<0.028	<29	<40	<200	<40	<80	<6600	<200	<1300	2800 J	33
05289-MW07	01/29/15	<0.13	<0.33	<0.33	0.55 J	1.1	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	7.3 J
05289-MW07D	01/29/15	0.25 J	1.8	<0.33	0.64 J	<0.40	<0.40	<0.020	<0.15	0.64 J	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1
05289-MW08	01/29/15	2.6	0.61 J	3.1	2.1	<0.40	3.8	<0.021	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	15 J	65	<2.1
05289-MW09	01/29/15	<0.13	<0.33	<0.33	<0.33	13	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	230	370	<2.1
05289-MW10	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1
05289-MW11	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	4100	<1.0	<6.7	<6.7	5.1 J
05289-MW13	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	46 J	<1.0	<6.7	<6.7	4.1 J
05289-MW14	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	5.3 J
05289-MW14D	01/29/15	30	20	1.6	6.3	<0.40	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	8.1 J	<6.7	<2.1
05289-MW15	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	290	<1.0	<6.7	<6.7	2.9 J
05289-MW16	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	86 J	<1.0	<6.7	<6.7	3.2 J
05289-MW17	01/29/15	<0.13	0.38 J	0.53 J	0.60 J	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	7.4 J
05289-MW17D	01/29/15	12	9.3	1.0	3.6	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	2.6 J
05289-MW18	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	19
05289-MW19	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	3.1 J
05289-MW19D	01/29/15	7.7	5.4	0.49 J	1.8	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	200	<1.0	<6.7	<6.7	<2.1
05289-MW20	01/29/15	<0.13	0.49 J	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	89 J	<1.0	<6.7	<6.7	7.7 J
SW01	01/29/15	<0.13	<0.33	<0.33	0.46 J	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
SW02	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
SW03	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
SW04	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	1.5 J	<0.40	<33	<1.0	<6.7	<6.7	NT
SW05	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
WSW01	06/17/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
WSW02	01/29/14	NOT SAMPLED - NOT ACCESSIBLE																
WSW03	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
WSW04	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	1.5 J	<0.40	<33	<1.0	<6.7	<6.7	NT
Field Blank	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
Trip Blank 1	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	NT	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
Trip Blank 2	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	NT	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT

**NOTES:**  
RBSL - Risk Based Screening Level  
**Bold** values indicate concentrations detected above the laboratory method detection limit.  
Shaded values indicate concentrations exceeding RBSLs.  
NE - Not Established  
NT - Not Tested

**TABLE 4**  
**Groundwater Velocity**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

<b>VELOCITY CALCULATION</b>	<b>Hydraulic Conductivity (K) (centimeters/second)</b>	<b>Hydraulic Conductivity (K) (feet/day)</b>	<b>Hydraulic Conductivity (K) (feet/year)</b>	<b>Hydraulic Gradient (i) (unitless)</b>	<b>Effective Porosity (n) (unitless)</b>	<b>Groundwater Velocity (V) (feet/day)</b>	<b>Groundwater Velocity (V) (feet/year)</b>
05289-MW10	4.71E-05	0.134	4.87E+01	0.004	0.18	2.97E-03	1.08
05289-MW17	7.49E-06	0.021	7.75E+00	0.004	0.18	4.72E-04	0.17
05289-MW17D	2.82E-07	0.001	2.92E-01	0.009	0.18	4.00E-05	0.01
Mathematical Mean	1.83E-05	0.052	1.89E+01	0.006	0.18	1.16E-03	0.42

**Notes:**

Hydraulic conductivity values were obtained from slug tests performed by Petra-Tech Environmental, LLC on January 30, 2015.

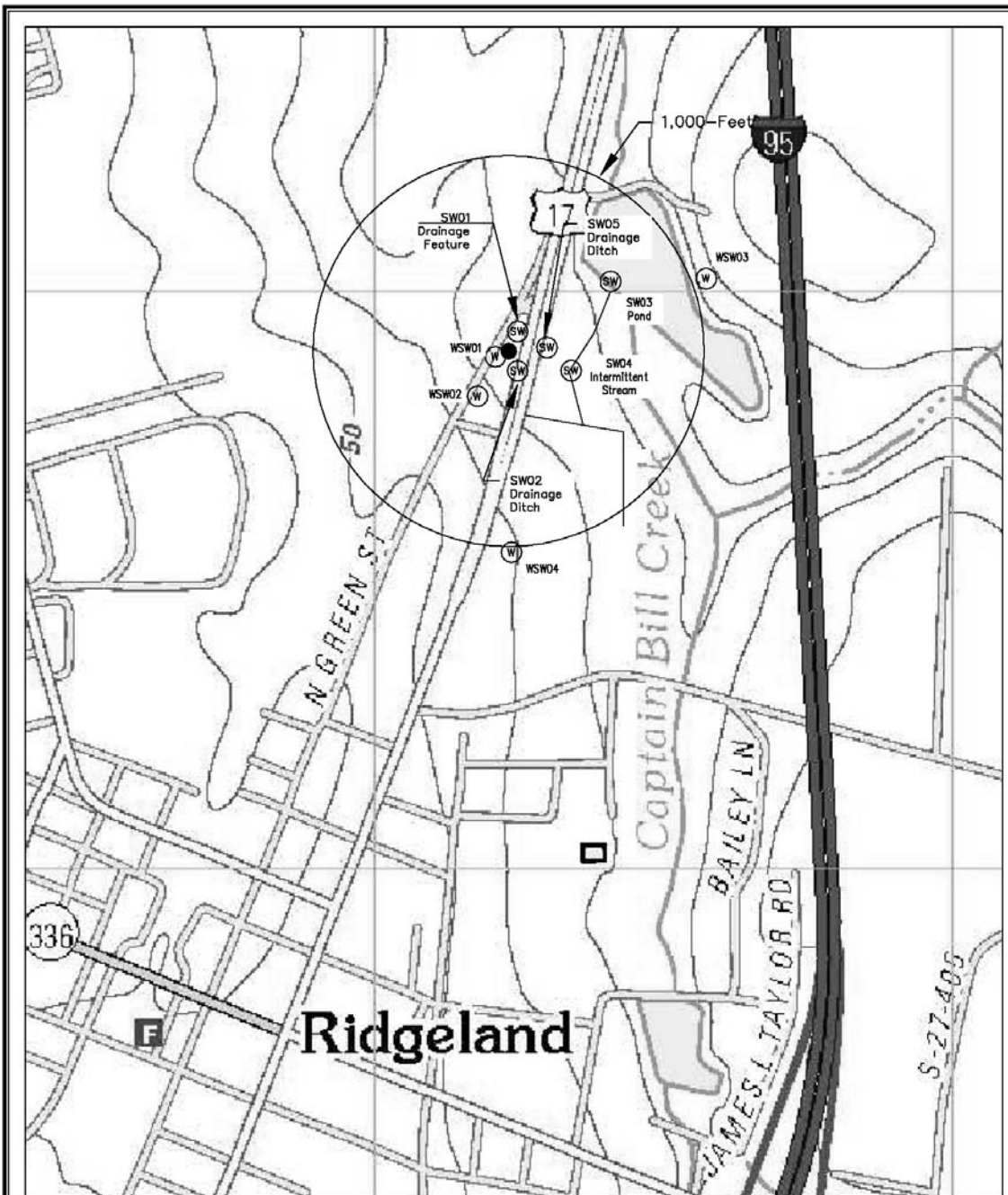
Effective porosity values were estimated from published values of effective porosity for a fine sand (ranging from 0.01 to 0.46; arithmetic mean 0.33) (McWorter and Sunada 1977) and a clay (ranging from 0.01 to 0.18; arithmetic mean 0.06) (McWorter and Sunada 1977).

Hydraulic gradient for the shallow aquifer was calculated based on groundwater elevations from and distances between monitoring wells 05289-MW02 and 05289-MW05 (Figure 4a).

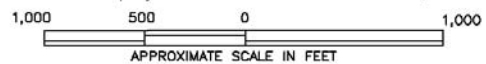
Hydraulic gradient for the deep aquifer was calculated based on groundwater elevations from and distances between monitoring wells 05289-MW02D and 05289-MW17D (Figure 4b).

Groundwater velocity derived from the equation  $V = Ki/n$ .

<b>Groundwater Velocity (V) (meters/second)</b>
1.05E-08
1.66E-09
1.41E-10
4.09E-09



REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1 Site Location Map by Midlands Environmental Consultants, Inc.



- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ W Private Water Supply Well

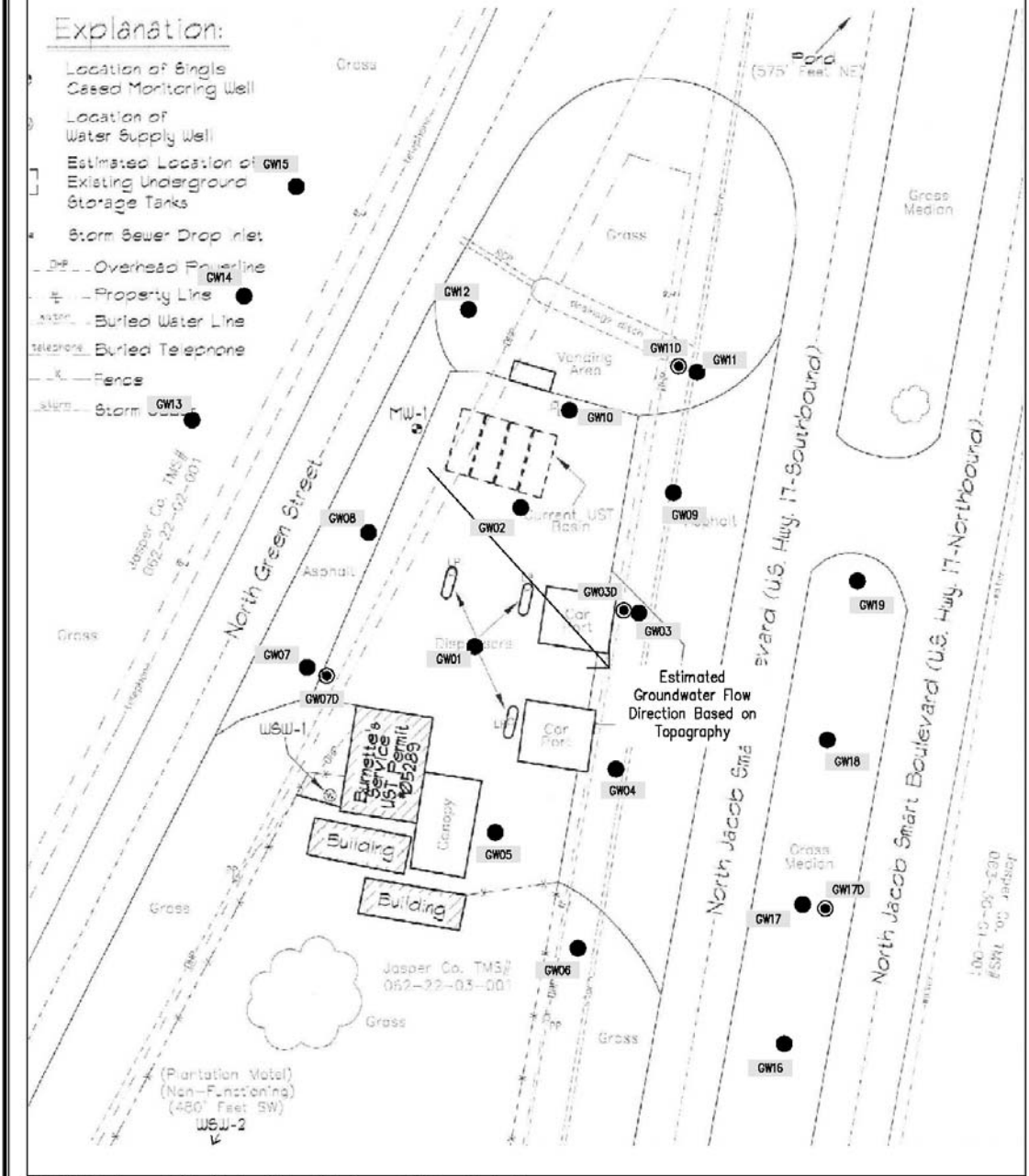


Title	Topographic Site Location Map		 ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No. 1
Project	Burnette's Service Station (UST Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County			
Date	08/20/2014			
REV.	02/24/2015			
Job No.	J14-080-A			



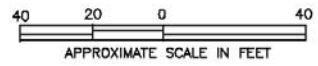
Explanation:

- Location of Single Cased Monitoring Well
- Location of Water Supply Well
- Estimated Location of Existing Underground Storage Tanks
- Storm Sewer Drop Inlet
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Telephone
- Fence
- Storm

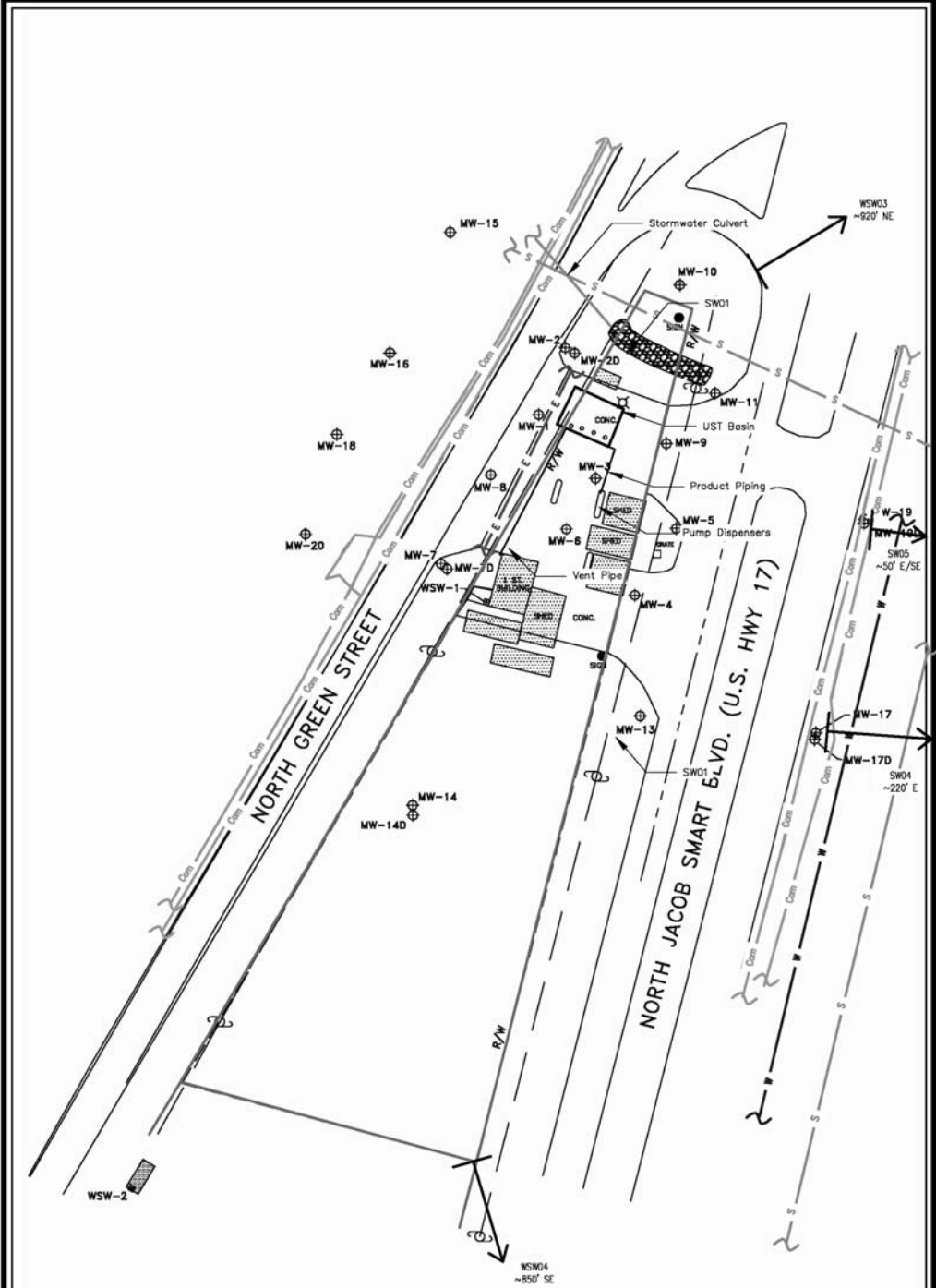


REFERENCE: Figure 2 Site Map by Midlands Environmental Consultants, Inc.

- Existing Groundwater Monitoring Well (1)
- Shallow Groundwater Screening Boring
- Deep Groundwater Screening Boring



Title	Groundwater Screening Boring Location Plan	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	
Rev.	02/20/2015	
Job No.	J14-080-A	
Figure No.	2	



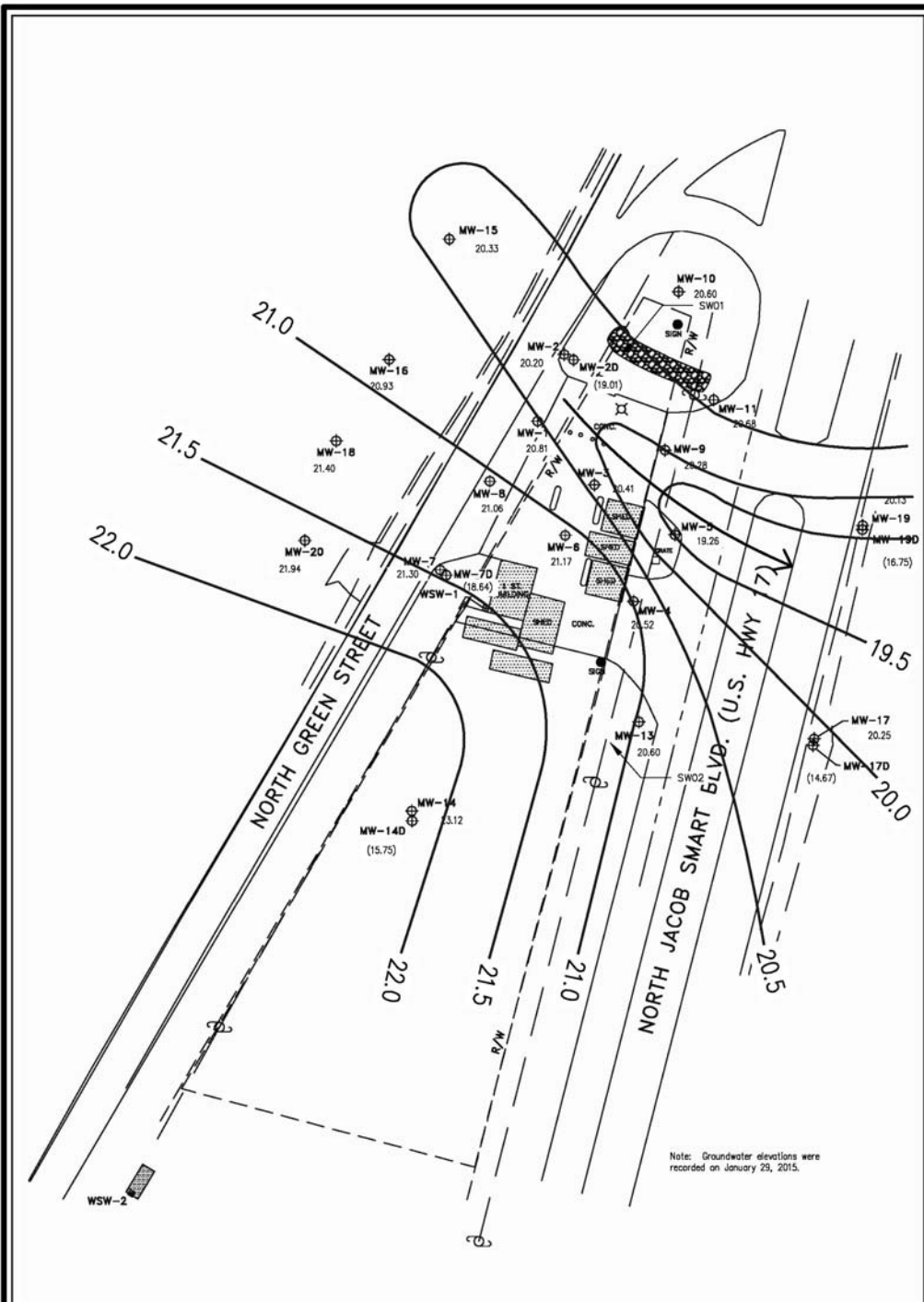
REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- E — Approximate Location of Underground Electric Line
- Com — Approximate Location of Underground Communication (Cable/Phone) Line
- W — Approximate Location of Underground Water Line
- GAS — Approximate Location of Underground Gas Line
- S — Approximate Location of Underground Sewer/Stormwater Line
- — Approximate Property Boundary






Title	Site Base Map
Project	Burnette's Service Station (UST Permit #05288) 11577 N. Jacob Smart Boulevard Roseland, South Carolina Jasper County
Date	02/25/2015
Job No.	214-080-A
Figure No.	3





REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

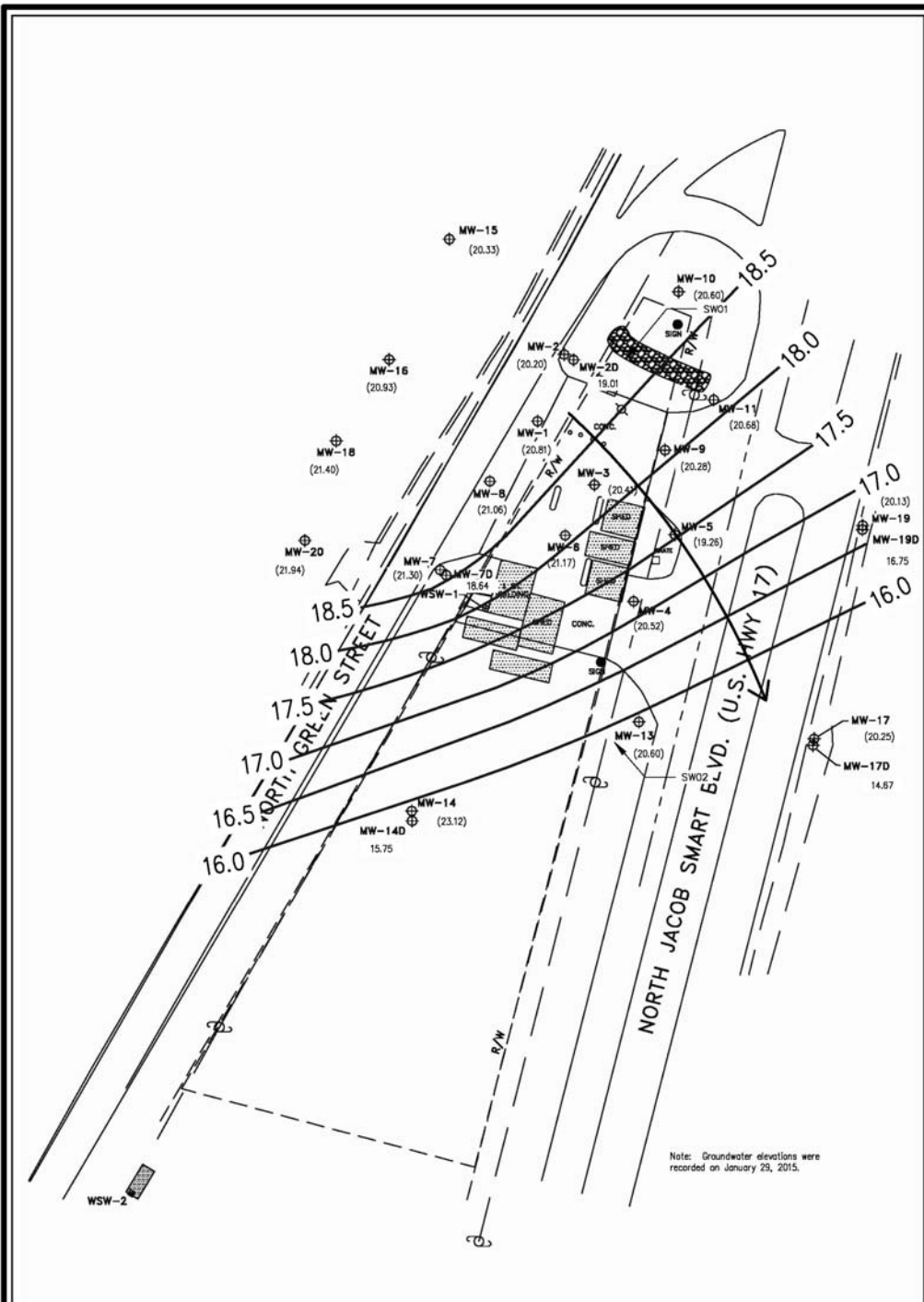
-  Groundwater Monitoring Well
-  Groundwater Potentiometric Contour  
Contour Interval = 0.50-foot
- 541.26 Groundwater Elevation
- (541.28) Groundwater Elevation Not Used For Contouring Purposes
-  Approximate Groundwater Flow Direction



Title	Groundwater Potentiometric Map - Shallow Aquifer	
Project	Burnetta's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Roseland, South Carolina Jasper County	
Date	02/25/2015	
Job No.	24-080-A	Figure No. 4a






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Note: Groundwater elevations were recorded on January 29, 2015.

REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

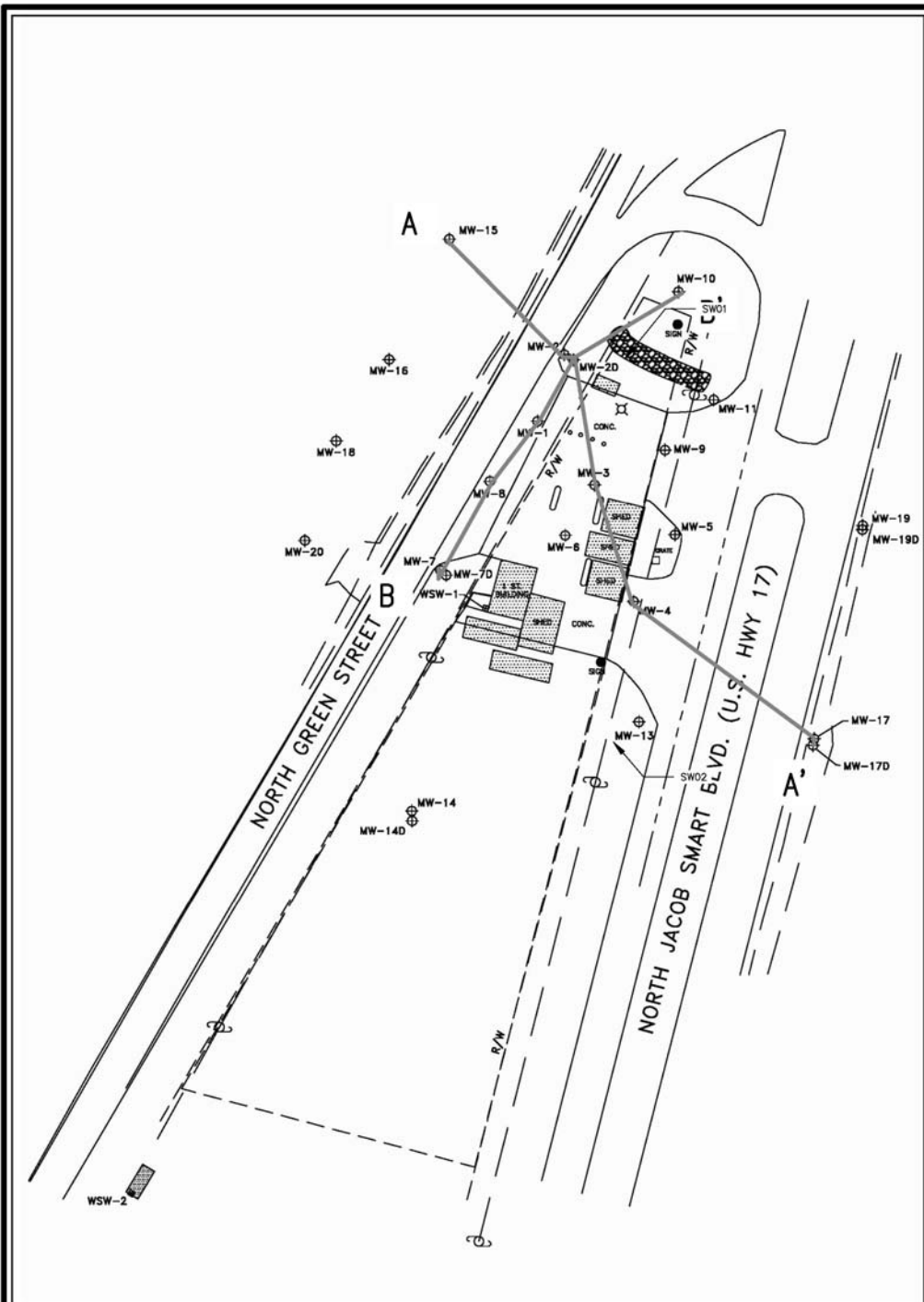
-  Groundwater Monitoring Well
-  Groundwater Potentiometric Contour  
Contour Interval = 0.50-foot
- 541.26 Groundwater Elevation
- (541.28) Groundwater Elevation Not Used For Contouring Purposes
-  Approximate Groundwater Flow Direction



Title	Groundwater Potentiometric Map - Deep Aquifer		
Project	Burnetta's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Roseland, South Carolina Jasper County		
Date	02/25/2015		
Job No.	J14-080-A		Figure No. 4b

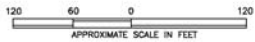


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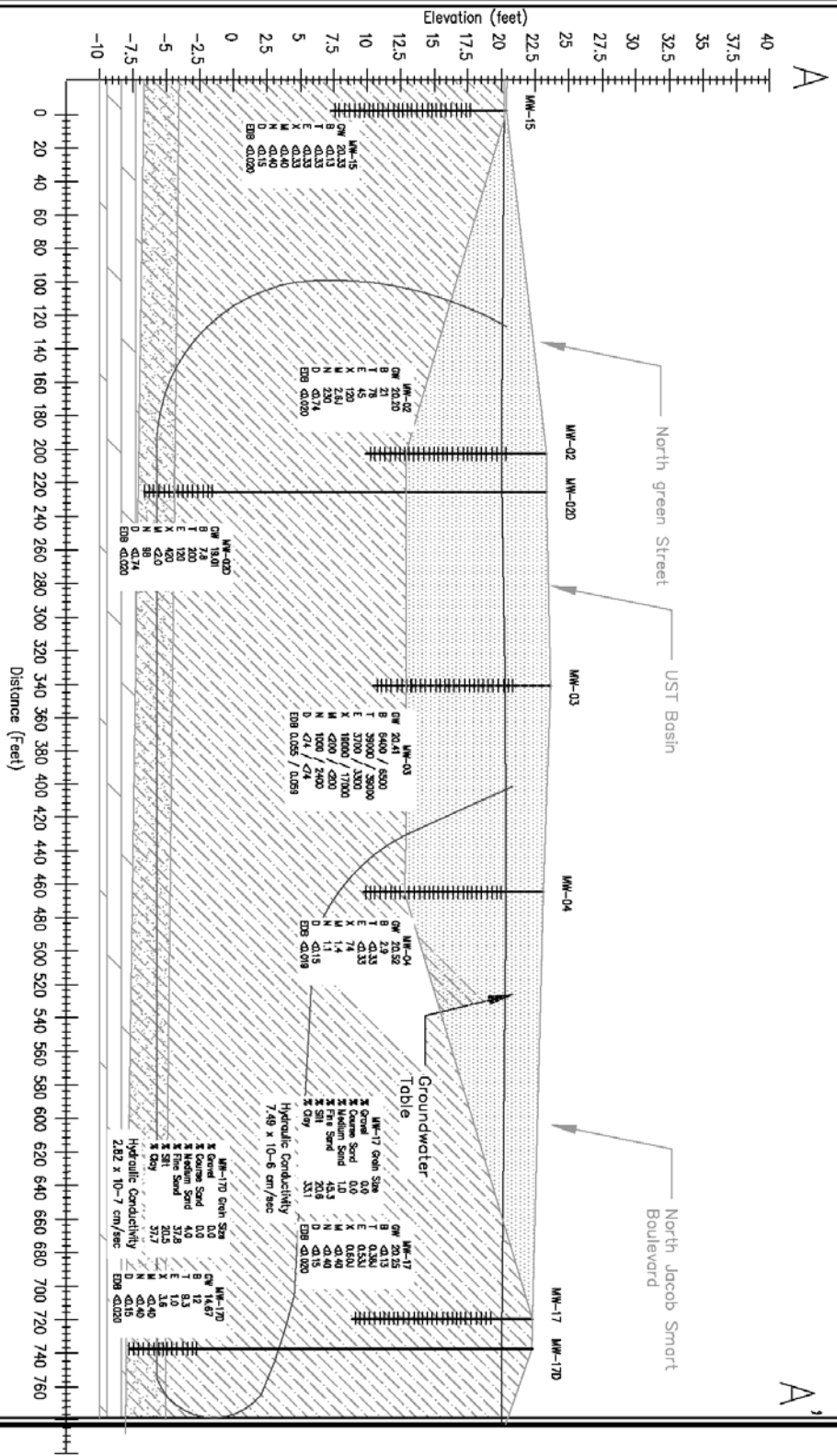


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

⊕ Groundwater Monitoring Well



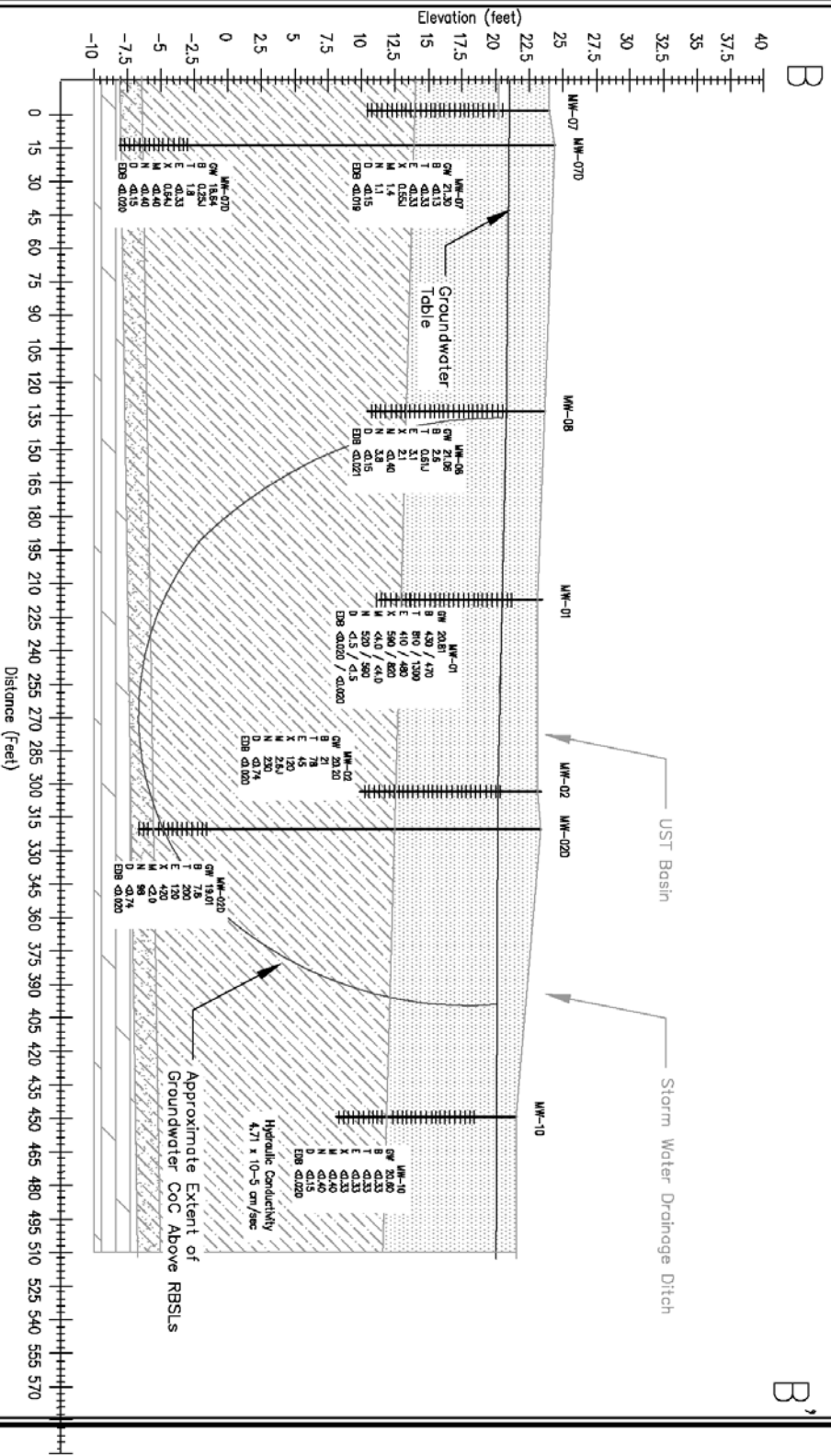
Title	Subsurface Geologic Cross-Section Reference Map	
Project	Burnetta's Service Station (UST Permit #05288) 11577 N. Jacob Smart Boulevard Kingsland, South Carolina Jasper County	
Date	02/25/2015	 petra-tech ENGINEERS & CONSULTANTS
Job No.	214-080-A	
Figure No.	5a	



Note: Please refer to Figure 5a for Geologic Cross-Section Reference Map

TITLE	Geologic Cross Section A-A'	
PROJECT	Burnette's (UST Permit #05289) 11577 N. Jobb Smart Boulevard Ridgeland, South Carolina Jasper County	
DATE	02/25/2015	
JOB NO.	U14-080-A	Figure No. 5b



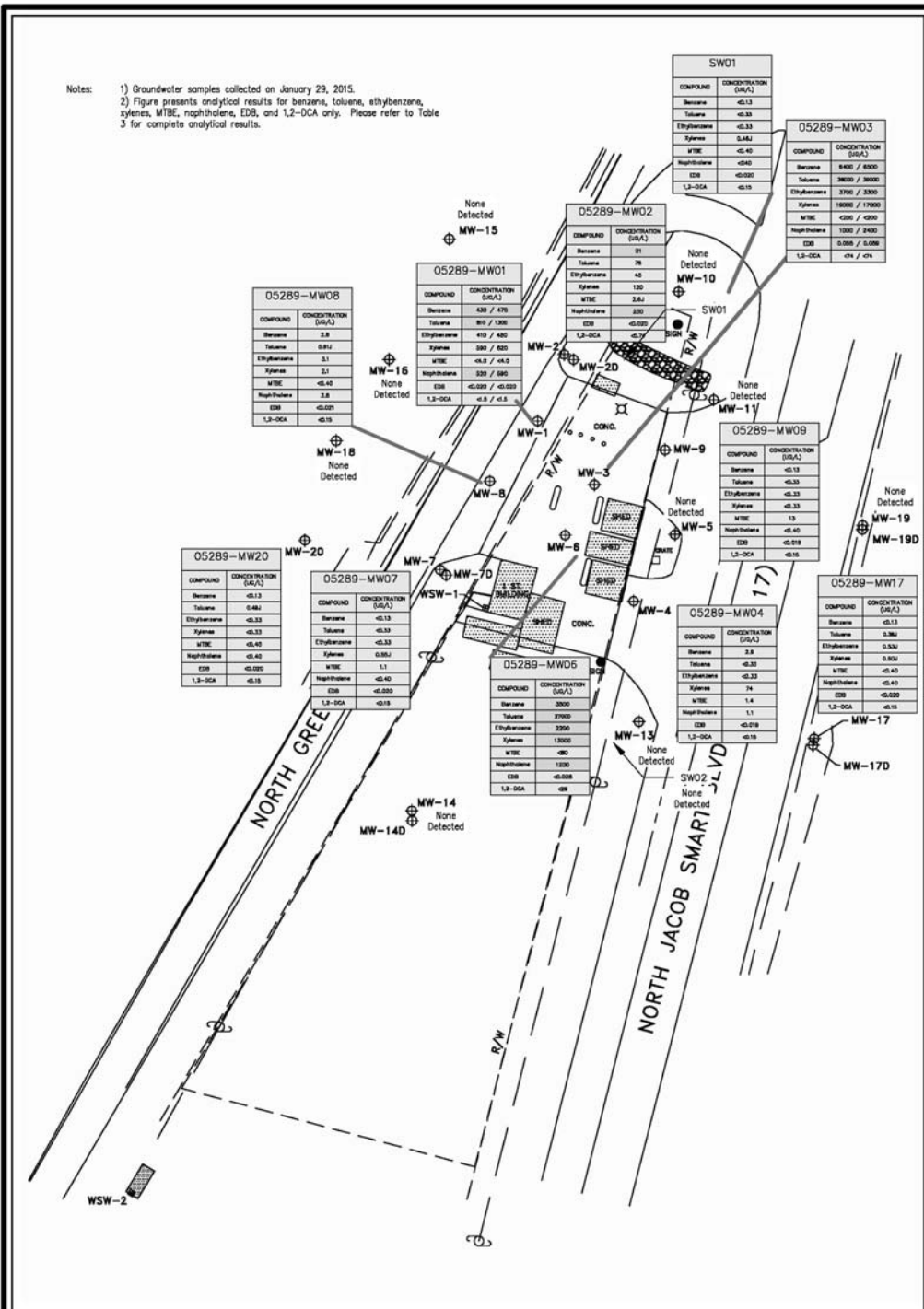


Note: Please refer to Figure 5a for Geologic Cross-Section Reference Map

TITLE	Geologic Cross Section B-B'	
PROJECT	Burnette's (UST Permit #05289) 11577 N. Jobb Smart Boulevard Ridgeland, South Carolina Jasper County	
DATE	02/25/2015	
JOB NO.	U14-080-A	Figure No. 5b

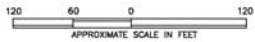


- Notes:
- 1) Groundwater samples collected on January 29, 2015.
  - 2) Figure presents analytical results for benzene, toluene, ethylbenzene, xylenes, MIBE, naphthalene, EDG, and 1,2-DCA only. Please refer to Table 3 for complete analytical results.



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

Groundwater Monitoring Well

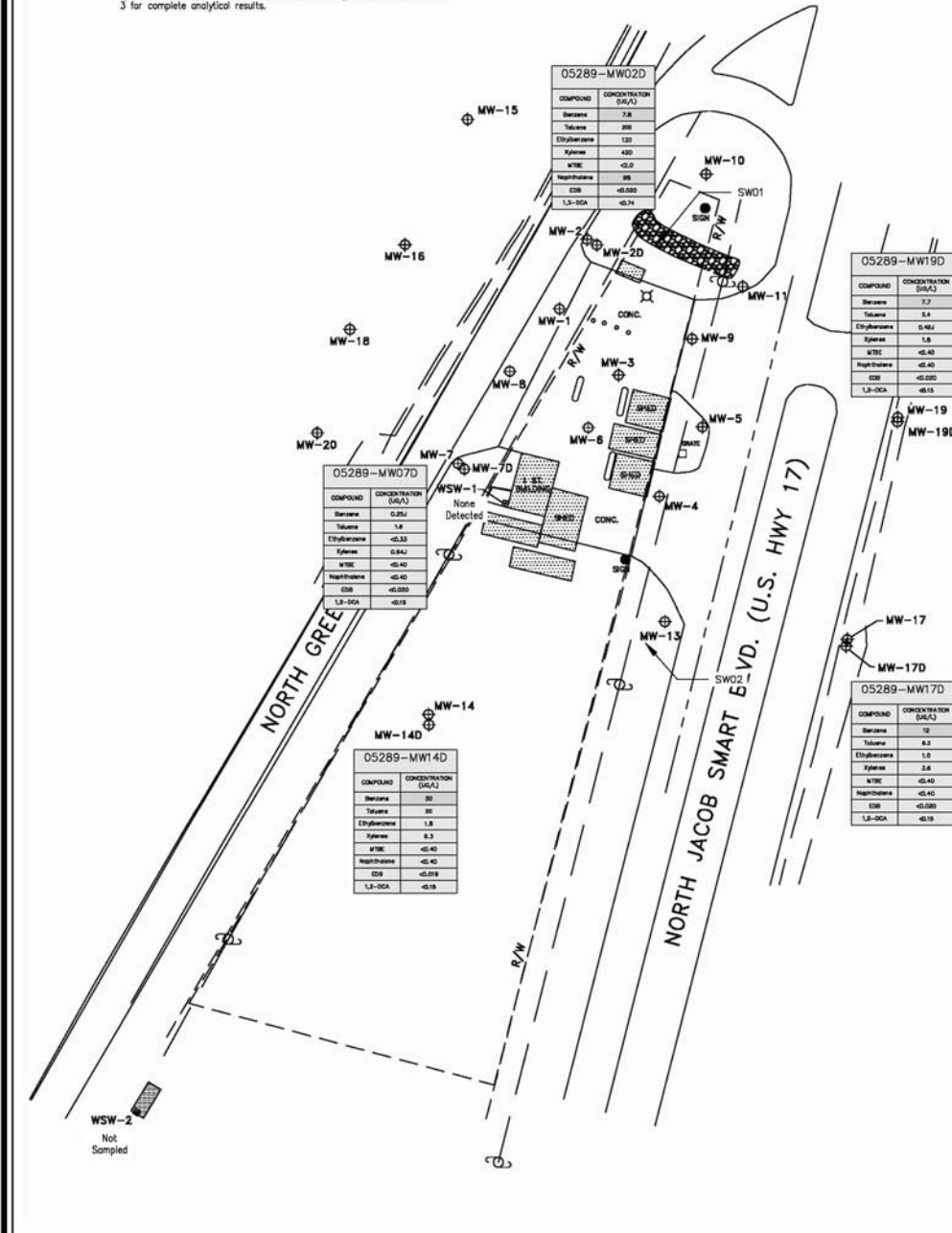


Title	Groundwater CoC Map - Shallow Aquifer - January 2015
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County
Date	02/25/2015
Job No.	214-080-A
Figure No.	5a

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- Notes:
- 1) Groundwater samples collected on January 29, 2015.
  - 2) Figure presents analytical results for benzene, toluene, ethylbenzene, xylenes, MTBE, naphthalene, EDG, and 1,2-DCA only. Please refer to Table 3 for complete analytical results.



05289-MW02D

COMPOUND	CONCENTRATION (PPM)
Benzene	1.8
Toluene	308
Ethylbenzene	130
Xylenes	420
MTBE	<0.0
Naphthalene	38
EDG	<0.000
1,2-DCA	<0.14

05289-MW19D

COMPOUND	CONCENTRATION (PPM)
Benzene	7.7
Toluene	3.4
Ethylbenzene	0.461
Xylenes	1.8
MTBE	<0.40
Naphthalene	<0.40
EDG	<0.000
1,2-DCA	<0.10

05289-MW07D

COMPOUND	CONCENTRATION (PPM)
Benzene	0.250
Toluene	1.8
Ethylbenzene	<0.33
Xylenes	0.841
MTBE	<0.40
Naphthalene	<0.40
EDG	<0.000
1,2-DCA	<0.18

05289-MW14D

COMPOUND	CONCENTRATION (PPM)
Benzene	30
Toluene	35
Ethylbenzene	1.8
Xylenes	6.3
MTBE	<0.40
Naphthalene	<0.40
EDG	<0.018
1,2-DCA	<0.18

05289-MW17D

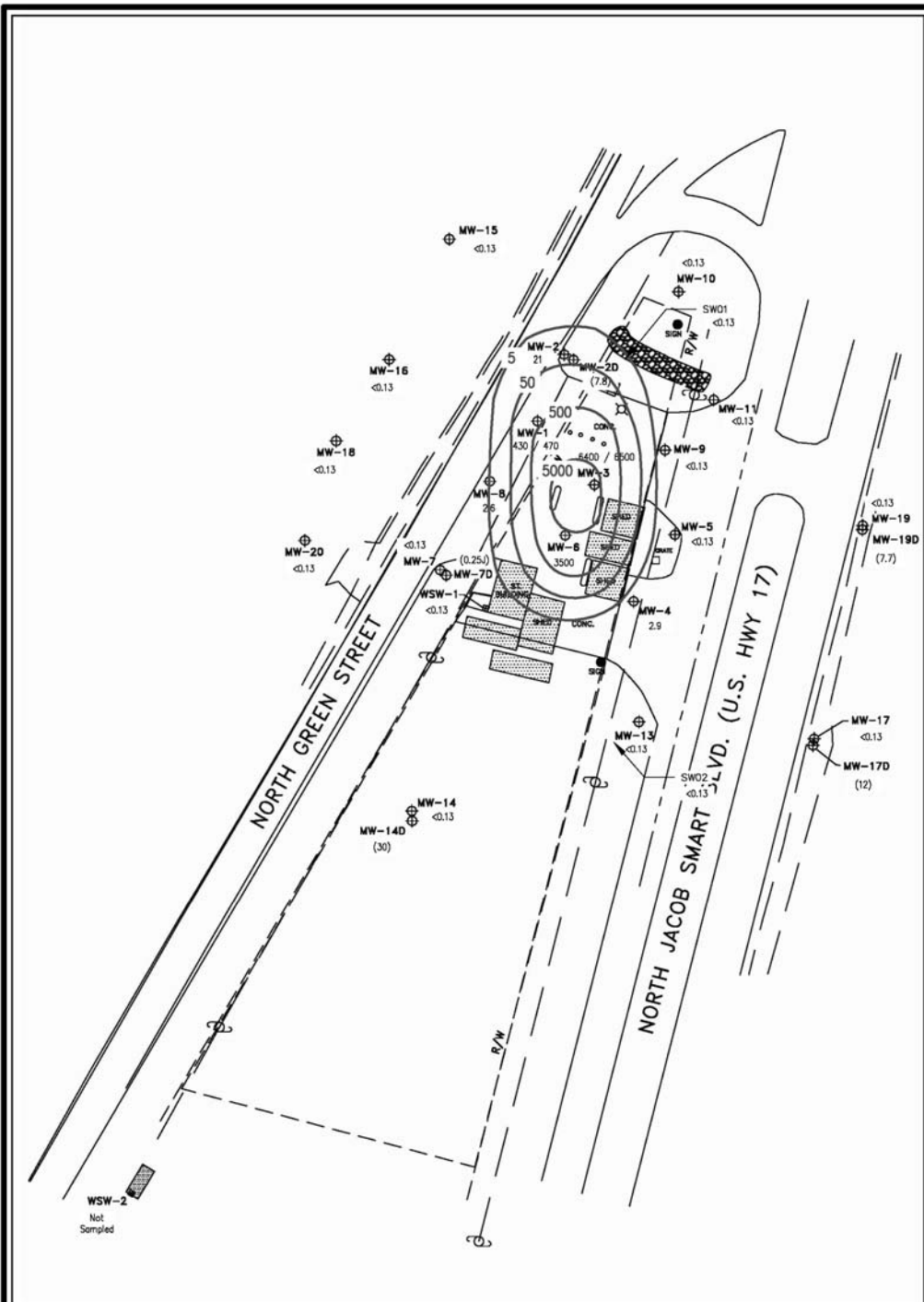
COMPOUND	CONCENTRATION (PPM)
Benzene	12
Toluene	8.3
Ethylbenzene	1.0
Xylenes	3.8
MTBE	<0.40
Naphthalene	<0.40
EDG	<0.000
1,2-DCA	<0.10

REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

⊕ Groundwater Monitoring Well

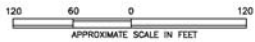


Title	Groundwater CoC Map - Deep Aquifer - January 2015		
Project	Burnetta's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 6b
Job No.	214-080-A		

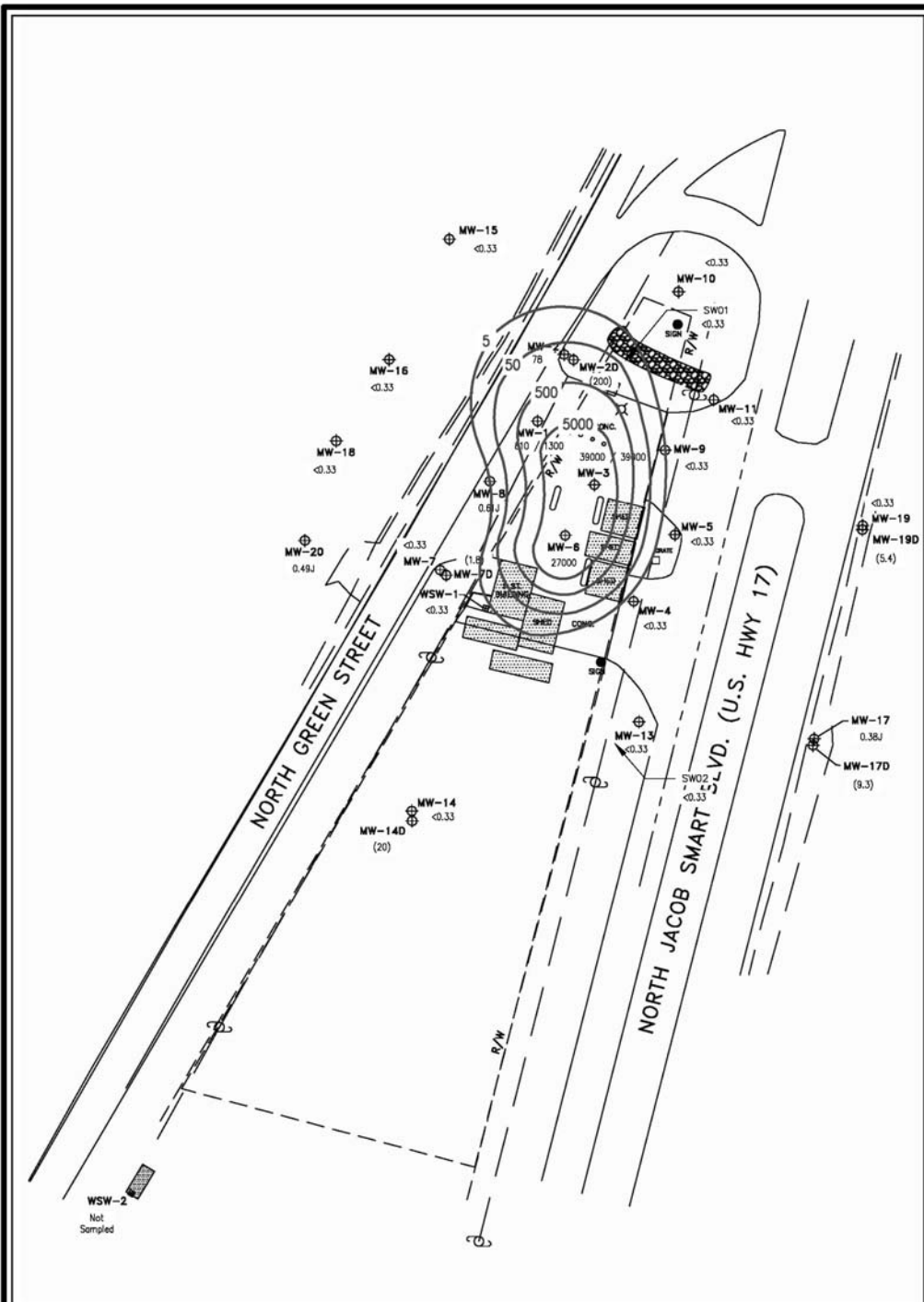


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- 2.5J Benzene Concentration in Micrograms Per Liter
- (2.5J) Benzene Concentration in Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval
- Benzene Isocentration Line



Title	Benzene Isocentration Map - January 2015		
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Kingsland, South Carolina Jasper County		
Date	02/25/2015		Figure No. 7a
Job No.	214-080-A		

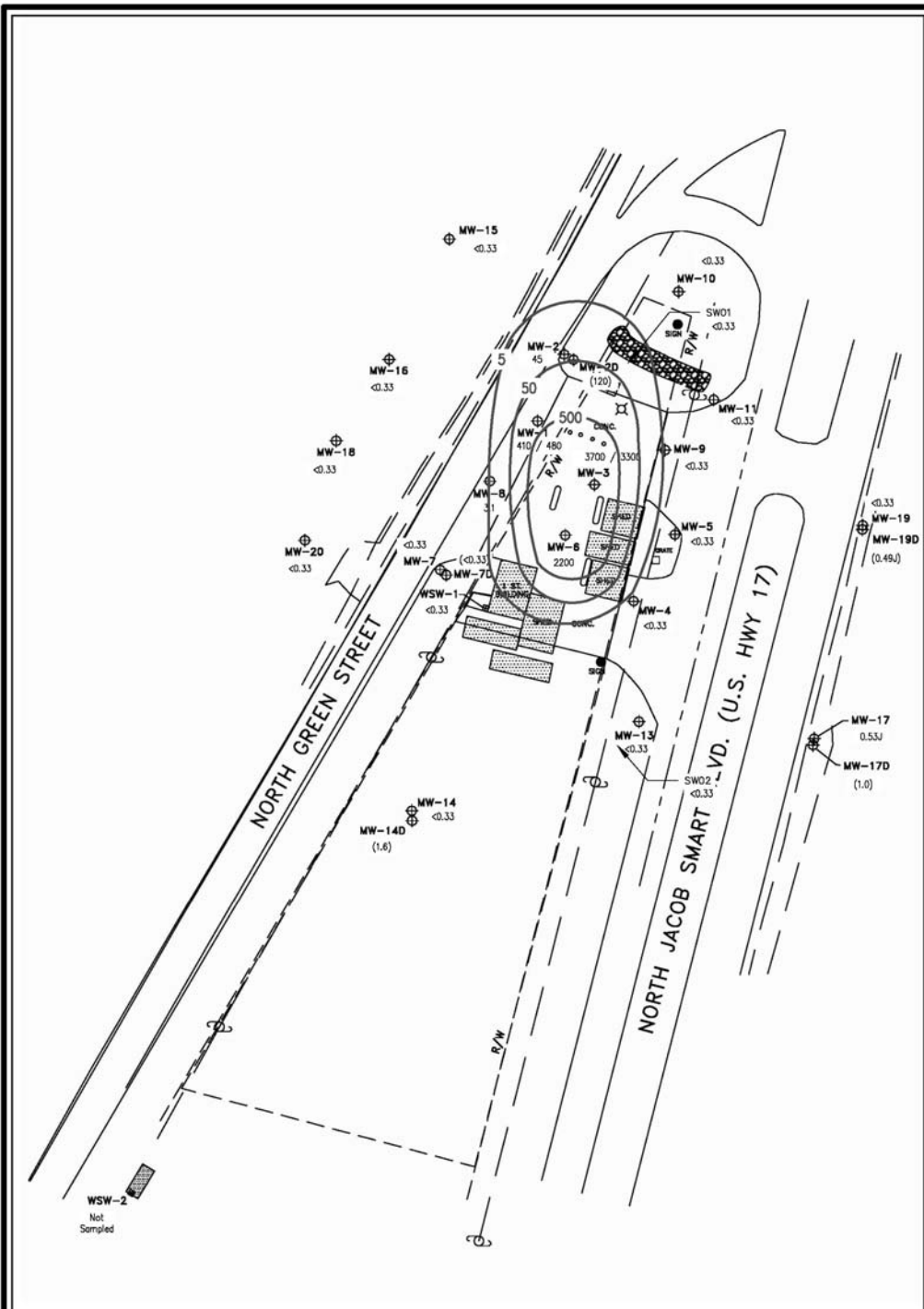


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- 2.5J Toluene Concentration In Micrograms Per Liter
- (2.5i) Toluene Concentration In Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval
- Toluene Isoconcentration Line

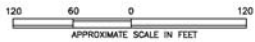


Title	Toluene Isoconcentration Map - January 2015		
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Kingsland, South Carolina Jasper County		
Date	02/25/2015		Figure No.
Job No.	214-080-A		7b



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

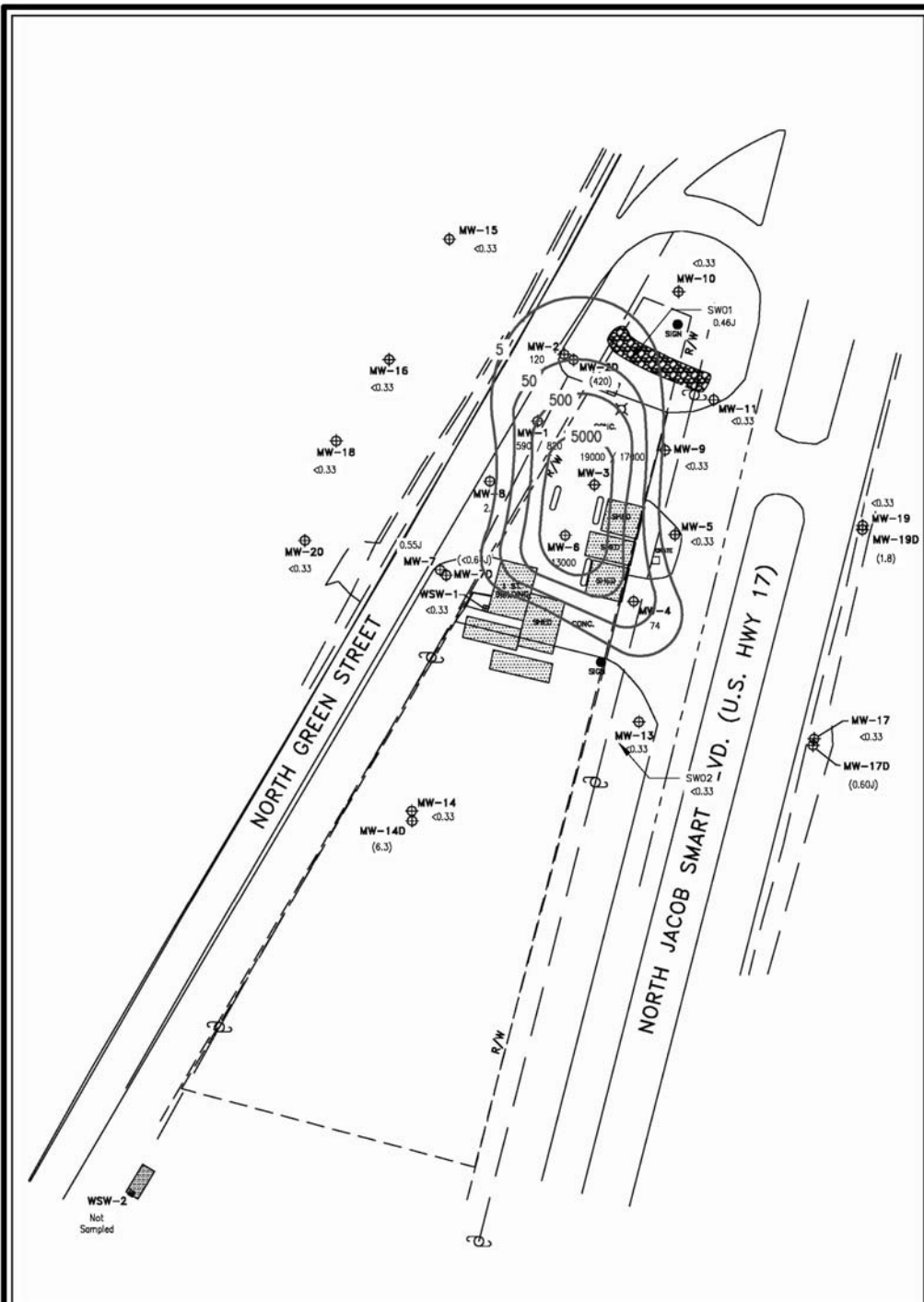
- ⊕ Groundwater Monitoring Well
- 2.5J Ethylbenzene Concentration in Micrograms Per Liter
- (2.5J) Ethylbenzene Concentration in Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval
- Ethylbenzene Isoconcentration Line



Title	Ethylbenzene Isoconcentration Map - January 2015
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Kingsland, South Carolina Jasper County
Date	02/25/2015
Job No.	214-080-A
Figure No.	7c



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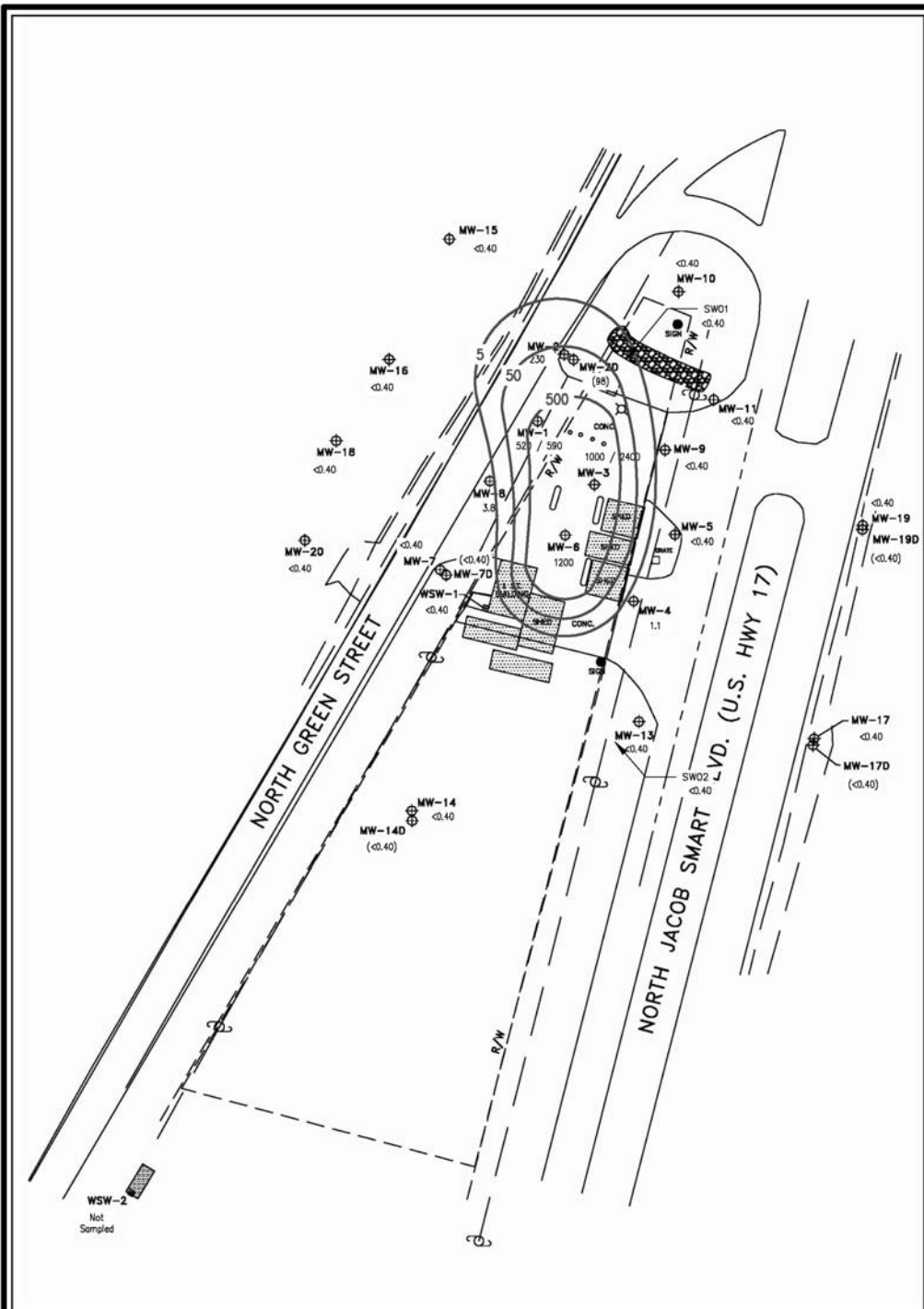


REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- 2.5J Xylenes Concentration In Micrograms Per Liter
- (2.5J) Xylenes Concentration In Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval
- Xylenes Isoconcentration Line



Title	Xylenes Isoconcentration Map - January 2015	
Project	Burnette's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Roperland, South Carolina Jasper County	
Date	02/25/2015	 <small>ENVIRONMENTAL, LLC ENGINEERS &amp; CONSULTANTS</small>
Job No.	214-080-A	
Figure No.	7d	



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- ⊕ Groundwater Monitoring Well
- 2.5J Naphthalene Concentration in Micrograms Per Liter
- (2.5J) Naphthalene Concentration in Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval
- Naphthalene Isoconcentration Line



Title	Naphthalene Isoconcentration Map - January 2015		
Project	Burnetta's Service Station (UST Permit #05286) 11577 N. Jacob Smart Boulevard Kingsland, South Carolina Jasper County		
Date	02/25/2015		
Job No.	24-080-A	petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No. 7e

**TABLE 1**  
**Summary of Groundwater Screening Results**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

		Groundwater Screening Sample												
	Method	RBSL (µg/L)	GW01	GW02	GW03	GW03D	GW04	GW05	GW06	GW07	GW07D	GW08	GW09	GW10
Boring Depth (ft bgs)	NA	NA	8	8	8	30	8	8	8	8	20	8	8	8
Depth-to-Groundwater (ft bgs)	NA	NA	5	5	5	5	5	5	5	5	5	5	5	5
Sample Depth (ft bgs)	NA	NA	4-8	4-8	4-8	26-30	4-8	4-8	4-8	4-8	16-20	4-8	4-8	4-8
PID Reading (ppm)	NA	NA	602	391	27	2.7	12.6	6.9	0.8	39	51	2.7	0.6	21
Benzene (µg/L)	8260B	5	1500	NT	0.34	0.34	NT	3.8	ND	3.3	0.46	NT	NT	NT
Toluene (µg/L)	8260B	1,000	24000	NT	14	12	NT	36	1.1	480	100	NT	NT	NT
Ethylbenzene (µg/L)	8260B	700	2100	NT	5.7	4.6	NT	8.2	ND	260	46	NT	NT	NT
Xylenes (µg/L)	8260B	10,000	13000	NT	42	44	NT	33	1.9	890	190	NT	NT	NT
Naphthalene (µg/L)	8260B	25	650	NT	6.3	0.70	NT	3.0	ND	110	16	NT	NT	NT
1,2-DCA (µg/L)	8260B	5	ND	NT	ND	ND	NT	ND	ND	ND	ND	NT	NT	NT
MTBE (µg/L)	8260B	40	ND	NT	7.3	0.79	NT	2.9	0.97	ND	ND	NT	NT	NT

		Groundwater Screening Sample											
	Method	RBSL (µg/L)	GW11	GW11D	GW12	GW13	GW14	GW15	GW16	GW17	GW17D	GW18	GW19
Boring Depth (ft bgs)	NA	NA	8	18	8	8	8	8	8	8	18	8	8
Depth-to-Groundwater (ft bgs)	NA	NA	5	5	5	5	5	5	5	5	5	5	5
Sample Depth (ft bgs)	NA	NA	4-8	14-18	4-8	4-8	4-8	4-8	4-8	4-8	14-18	4-8	4-8
PID Reading (ppm)	NA	NA	0.7	0.9	10.5	0.0	0.0	0.1	0.0	0.8	0.5	0.1	0.3
Benzene (µg/L)	8260B	5	ND	ND	4.1	ND	NT	ND	NT	ND	ND	NT	ND
Toluene (µg/L)	8260B	1,000	2.7	4.5	24	ND	NT	ND	NT	1.9	1.6	NT	1.9
Ethylbenzene (µg/L)	8260B	700	1.8	2.6	7.9	ND	NT	ND	NT	1.4	1.3	NT	ND
Xylenes (µg/L)	8260B	10,000	8.3	10	50	ND	NT	ND	NT	5.7	3.4	NT	ND
Naphthalene (µg/L)	8260B	25	1.1	0.55	100	ND	NT	ND	NT	ND	ND	NT	ND
1,2-DCA (µg/L)	8260B	5	ND	ND	ND	ND	NT	ND	NT	ND	ND	NT	ND
MTBE (µg/L)	8260B	40	ND	ND	2.8	ND	NT	ND	NT	ND	ND	NT	ND

**NOTES:**

RBSL - Risk Based Screening Level

Shaded values indicate concentrations exceeding RBSLs.

PID - MiniRae Lite Photoionization Detector

ppm - parts per million

ft bgs - feet below ground surface

NA - Not Applicable

NT - Not Tested. Sample not submitted for laboratory analysis

**TABLE 2**  
**Monitoring Well and Groundwater Surface Elevation Data**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Groundwater Depth Below Top-of-Casing	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
05289-MW01	23.37	23.05	6/17/14	3.76	19.29	12.00	2.00 - 12.00	21.37 - 11.37
			1/29/15	2.24	20.81			
05289-MW02	23.59	23.21	1/29/15	3.01	20.20	13.88	3.68 - 13.68	19.91 - 9.91
05289-MW02D	23.13	22.79	1/29/15	3.78	19.01	30.00	24.80 - 29.80	-1.67 - -6.67
05289-MW03	23.64	23.49	1/29/15	3.08	20.41	13.32	3.12 - 13.12	20.52 - 10.52
05289-MW04	23.26	22.93	1/29/15	2.41	20.52	13.79	3.59 - 13.59	19.67 - 9.67
05289-MW05	22.50	22.14	1/29/15	2.88	19.26	13.86	3.66 - 13.66	18.84 - 8.84
05289-MW06	24.14	23.73	1/29/15	2.56	21.17	13.49	3.29 - 13.29	20.85 - 10.85
05289-MW07	24.32	23.94	1/29/15	2.64	21.30	13.95	3.75 - 13.75	20.57 - 10.57
05289-MW07D	24.34	23.96	1/29/15	5.32	18.64	32.49	27.29 - 32.29	-2.95 - -7.95
05289-MW08	24.00	23.76	1/29/15	2.70	21.06	13.65	3.45 - 13.45	20.55 - 10.55
05289-MW09	22.64	22.30	1/29/15	2.02	20.28	13.96	3.76 - 13.76	18.88 - 8.88
05289-MW10	21.39	21.07	1/29/15	0.47	20.60	13.62	3.42 - 13.42	17.97 - 7.97
05289-MW11	21.75	21.41	1/29/15	0.73	20.68	13.85	3.65 - 13.65	18.10 - 8.10
05289-MW13	22.29	21.96	1/29/15	1.36	20.60	13.82	3.62 - 13.62	18.67 - 8.67
05289-MW14	25.01	24.40	1/29/15	1.28	23.12	13.92	3.72 - 13.72	21.29 - 11.29
05289-MW14D	24.87	24.55	1/29/15	8.80	15.75	23.77	18.57 - 23.57	6.30 - 1.30
05289-MW15	20.76	20.33	1/29/15	0.00	20.33	13.84	3.64 - 13.64	17.12 - 7.12
05289-MW16	20.95	24.35	1/29/15	3.42	20.93	12.05	1.85 - 11.85	19.10 - 9.10
05289-MW17	22.48	22.17	1/29/15	1.92	20.25	13.91	3.71 - 13.71	18.77 - 8.77
05289-MW17D	22.42	22.28	1/29/15	7.61	14.67	30.51	25.31 - 30.31	-2.89 - -7.89
05289-MW18	21.49	24.44	1/29/15	3.04	21.40	12.58	2.38 - 12.38	19.11 - 9.11
05289-MW19	22.38	22.14	1/29/15	2.01	20.13	14.00	3.80 - 13.80	18.58 - 8.58
05289-MW19D	22.41	22.18	1/29/15	5.43	16.75	32.14	26.94 - 31.94	-4.53 - -9.53
05289-MW20	22.16	21.94	1/29/15	0.00	21.94	13.37	3.17 - 13.17	18.99 - 8.99

**NOTES:**

Measurements are in feet  
BGS - below ground surface  
Elevations are NAVD 88



**TABLE 3**  
**Summary of Groundwater Analytical Results**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	
05289-MW01	06/17/14	470	1700	420	760	<100	940	<-0.020	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	12
	01/29/15	430	810	410	590	<4.0	520	<-0.020	<1.5	<2.0	<10	<2.0	<4.0	<330	<10	<67	160 J	NT	<2.1
	01/29/15 DUP	470	1300	480	820	<4.0	590	<-0.020	<1.5	<2.0	<10	<2.0	<4.0	<330	<10	<67	180 J	2.5 J	
05289-MW02	01/29/15	21	78	45	120	2.6 J	230	<-0.020	<0.74	<1.0	<5.0	<1.0	<2.0	<170	<5.0	55 J	36 J	23	
05289-MW02D	01/29/15	7.8	200	120	420	<2.0	98	<-0.020	<0.74	<1.0	<5.0	<1.0	<2.0	<170	<5.0	61 J	<34	<2.1	
05289-MW03	01/29/15	6400	39000	3700	19000	<200	1000	0.055	<74	<100	<500	<100	<200	<17000	<500	<3400	<3400	<3400	58
	01/29/15 DUP	6500	39000	3300	17000	<200	2400	0.059	<74	<100	<500	<100	<200	<17000	<500	<3400	<3400	<3400	52
05289-MW04	01/29/15	2.9	<0.33	<0.33	74	1.4	1.1	<-0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	6.8 J	2.7 J	
05289-MW05	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1	
05289-MW06	01/29/15	3500	27000	2200	13000	<80	1200	<-0.028	<29	<40	<200	<40	<80	<6600	<200	<1300	2800 J	33	
05289-MW07	01/29/15	<0.13	<0.33	<0.33	0.55 J	1.1	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	7.3 J	
05289-MW07D	01/29/15	0.25 J	1.8	<0.33	0.64 J	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1	
05289-MW08	01/29/15	2.6	0.61 J	3.1	2.1	<0.40	3.8	<-0.021	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	15 J	65	<2.1	
05289-MW09	01/29/15	<0.13	<0.33	<0.33	<0.33	13	<0.40	<-0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	230	370	<2.1	
05289-MW10	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1	
05289-MW11	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.019	<0.15	<0.20	<1.0	<0.20	<0.40	4100	<1.0	<6.7	<6.7	5.1 J	
05289-MW13	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.019	<0.15	<0.20	<1.0	<0.20	<0.40	46 J	<1.0	<6.7	<6.7	4.1 J	
05289-MW14	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	5.3 J	
05289-MW14D	01/29/15	30	20	1.6	6.3	<0.40	<0.40	<-0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	8.1 J	<6.7	<2.1	
05289-MW15	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	290	<1.0	<6.7	<6.7	2.9 J	
05289-MW16	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	86 J	<1.0	<6.7	<6.7	3.2 J	
05289-MW17	01/29/15	<0.13	0.38 J	0.53 J	0.60 J	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	7.4 J	
05289-MW17D	01/29/15	12	9.3	1.0	3.6	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	2.6 J	
05289-MW18	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	19	
05289-MW19	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	3.1 J	
05289-MW19D	01/29/15	7.7	5.4	0.49 J	1.8	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	200	<1.0	<6.7	<6.7	<2.1	
05289-MW20	01/29/15	<0.13	0.49 J	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	89 J	<1.0	<6.7	<6.7	7.7 J	
SW01	01/29/15	<0.13	<0.33	<0.33	0.46 J	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
SW02	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
SW03	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
SW04	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	1.5 J	<0.40	<33	<1.0	<6.7	<6.7	NT	
SW05	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
WSW01	06/17/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<-0.020	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
WSW02	01/29/14	NOT SAMPLED - NOT ACCESSIBLE																	
WSW03	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
WSW04	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	1.5 J	<0.40	<33	<1.0	<6.7	<6.7	NT	
Field Blank	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<-0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
Trip Blank 1	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	NT	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	
Trip Blank 2	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	NT	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT	

**NOTES:**  
RBSL - Risk Based Screening Level  
**Bold** values indicate concentrations detected above the laboratory method detection limit.  
Shaded values indicate concentrations exceeding RBSLs.  
NE - Not Established  
NT - Not Tested

**TABLE 4**  
**Groundwater Velocity**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

<b>VELOCITY CALCULATION</b>	<b>Hydraulic Conductivity (K) (centimeters/second)</b>	<b>Hydraulic Conductivity (K) (feet/day)</b>	<b>Hydraulic Conductivity (K) (feet/year)</b>	<b>Hydraulic Gradient (i) (unitless)</b>	<b>Effective Porosity (n) (unitless)</b>	<b>Groundwater Velocity (V) (feet/day)</b>	<b>Groundwater Velocity (V) (feet/year)</b>	<b>Groundwater Velocity (V) (meters/second)</b>
05289-MW10	4.71E-05	0.134	4.87E+01	0.004	0.18	2.97E-03	1.08	1.05E-08
05289-MW17	7.49E-06	0.021	7.75E+00	0.004	0.18	4.72E-04	0.17	1.66E-09
05289-MW17D	2.82E-07	0.001	2.92E-01	0.009	0.18	4.00E-05	0.01	1.41E-10
Mathematical Mean	1.83E-05	0.052	1.89E+01	0.006	0.18	1.16E-03	0.42	4.09E-09

**Notes:**

Hydraulic conductivity values were obtained from slug tests performed by Petra-Tech Environmental, LLC on January 30, 2015.

Effective porosity values were estimated from published values of effective porosity for a fine sand (ranging from 0.01 to 0.46; arithmetic mean 0.33) (McWorter and Sunada 1977) and a clay (ranging from 0.01 to 0.18; arithmetic mean 0.06) (McWorter and Sunada 1977) .

Hydraulic gradient for the shallow aquifer was calculated based on groundwater elevations from and distances between monitoring wells 05289-MW02 and 05289-MW05 (Figure 4a).

Hydraulic gradient for the deep aquifer was calculated based on groundwater elevations from and distances between monitoring wells 05289-MW02D and 05289-MW17D (Figure 4b).

Groundwater velocity derived from the equation  $V = Ki/n$ .



05289

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

**BRYAN SHANE**  
**MIDLANDS ENVIRONMENTAL CONSULTANTS**  
**PO BOX 854**  
**LEXINGTON SC 29071**

**OCT 23 2015**



Re: **Site Specific Work Plan Request**  
 Groundwater Sampling Contract  
 Solicitation # IFB-5400007403, PO#4600445246

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), Revision 2.0 it is requested that you submit a Site Specific Work Plan for each site listed below. The plans must be submitted **within 15 business days** to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved.

UST Permit	Site Name	County	# samples and requested analysis*	Project Manager
04783	Kings Texaco	Greenwood	24-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
04878	Nickelpumper 233	Jasper	12-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
05289	Burnettes Service Station	Jasper	34-BTEXMN, DCA, Oxygenates, & EDB	J. Bryant
15438	Abandoned Service Station	Colleton	39-BTEXMN, DCA, Oxygenates & EDB	J. Bryant
12613	Lee Mart	Bamberg	41-BTEXMN, DCA, Oxygenates, Total Lead, PAH, Nitrate, Sulfate & EDB	J. Bryant
15765	River City Land Company	Anderson	11-BTEXMN, DCA, Oxygenates & EDB	R. Miner
19522	King Oil	Anderson	7-BTEXMN, DCA, Oxygenates & EDB	R. Miner
11702	Colonel Creek Landing	Fairfield	7-BTEXMN, DCA, & Oxygenates	R. Miner
15670	Colleton County Maintenance Shop	Colleton	10-BTEXMN, DCA, Oxygenates & EDB	J. Bryant
14094	Little Howies	Bamberg	12-BTEXMN, DCA, Oxygenates & EDB	J. Bryant
18787	Former Blitchington Grocery	Orangeburg	8-BTEXMN, DCA, Oxygenates & EDB	R. Miner
00414	Clinkscales	Anderson	7-BTEXMN, DCA, Oxygenates & EDB	R. Miner

19002	Former McCoy Oil	Fairfield	10-BTEXMN, DCA, Oxygenates & EDB	R. Miner
00467	Stop A Minute 1	Anderson	8-BTEXMN, DCA, Oxygenates & EDB	R. Miner
19328	Phillips Rental Property	Orangeburg	9-BTEXMN, DCA, Oxygenates & EDB	R. Miner
07982	Former Junior Food Mart	Saluda	7-BTEXMN, DCA, Oxygenates	R. Miner
17195	H H Transfer Storage	Orangeburg	5-BTEXMN, DCA, Oxygenates & EDB	R. Miner
09391	Bob's Superette	York	21-BTEXMN, DCA, Oxygenates & EDB	A. Looper
12199	51 Express	Georgetown	10-BTEXMN, DCA, Oxygenates & EDB	A. Looper

\*The number of samples do not include trip blanks, field blanks, or field duplicate

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 898-0606 or [bryantjc@dhec.sc.gov](mailto:bryantjc@dhec.sc.gov).

Sincerely,



John C. Bryant, Hydrogeologist  
 Corrective Action Section  
 UST Management Division  
 Bureau of Land & Waste Management

enc: Site Information Packages  
 cc: Technical Files



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 2920  
Telephone: 803-898-2544

**MEMORANDUM**

TO: Midlands Environmental Consultants, Inc

FROM: John Bryant

RE: Site Specific Work Plan Request

Facility Name: Burnettes Service Station

Permit Number: 05289

County: Jasper

Work To Be Completed: Sample all wells, surface waters and water supply wells (within 1000 foot). All wells are required to be purged.

Total Number of Samples: 34

Analysis Being Requested: BTEXNM, 1,2 DCA, 8-Oxys, Ethanol and EDB

**TABLE 2**  
**Monitoring Well and Groundwater Surface Elevation Data**  
**Burnette's Service Station - UST Permit #05289**  
**Ridgeland, Jasper County, South Carolina**

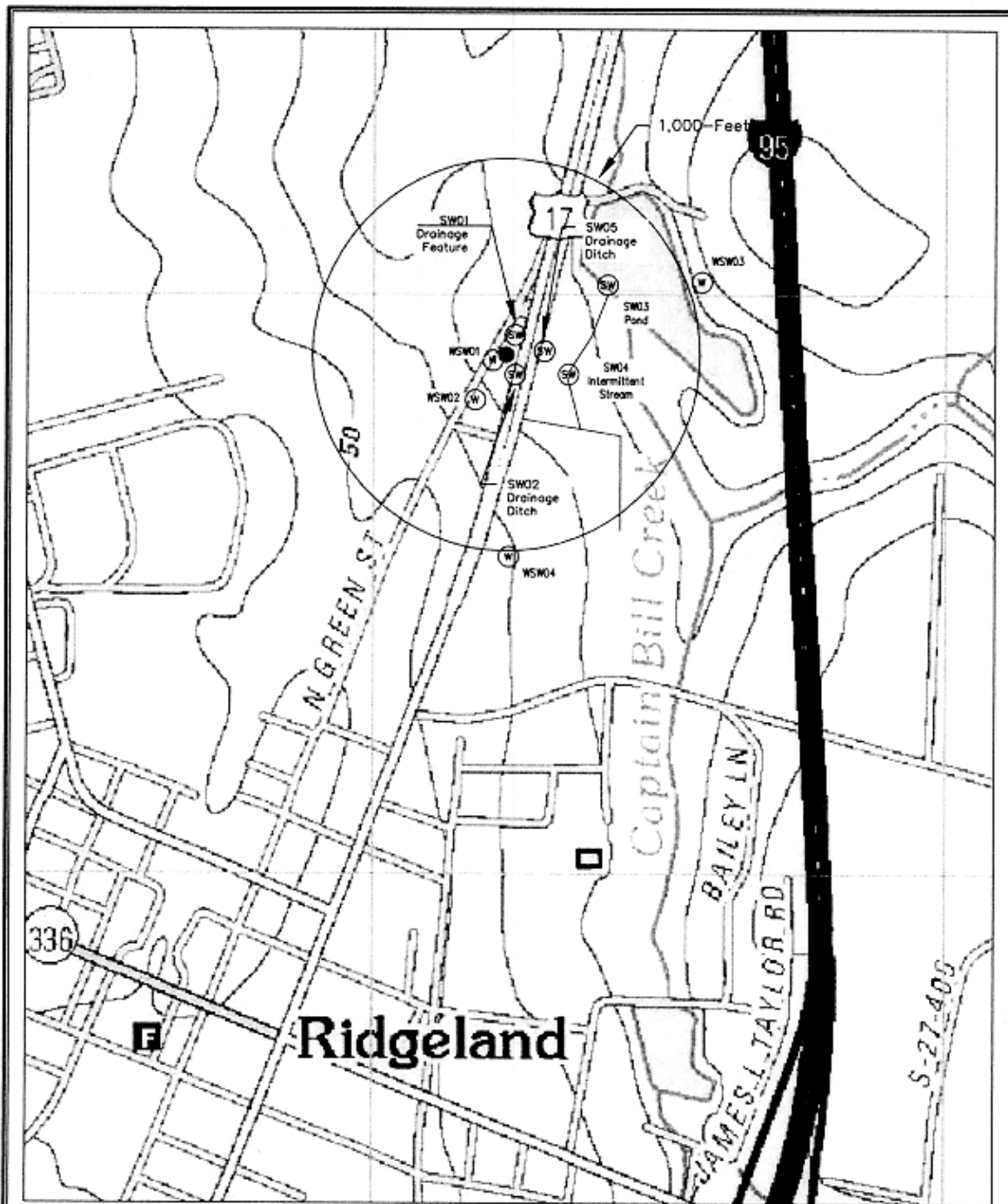
Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Groundwater Depth Below Top-of-Casing	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
05289-MW01	23.37	23.05	6/17/14 1/29/15	3.76 2.24	19.29 20.81	12.00	2.00 - 12.00	21.37 - 11.37
05289-MW02	23.59	23.21	1/29/15	3.01	20.20	13.88	3.68 - 13.68	19.91 - 9.91
05289-MW02D	23.13	22.79	1/29/15	3.78	19.01	30.00	24.80 - 29.80	-1.67 - -6.67
05289-MW03	23.64	23.49	1/29/15	3.08	20.41	13.32	3.12 - 13.12	20.52 - 10.52
05289-MW04	23.26	22.93	1/29/15	2.41	20.52	13.79	3.59 - 13.59	19.67 - 9.67
05289-MW05	22.50	22.14	1/29/15	2.88	19.26	13.86	3.66 - 13.66	18.84 - 8.84
05289-MW06	24.14	23.73	1/29/15	2.56	21.17	13.49	3.29 - 13.29	20.85 - 10.85
05289-MW07	24.32	23.94	1/29/15	2.64	21.30	13.95	3.75 - 13.75	20.57 - 10.57
05289-MW07D	24.34	23.96	1/29/15	5.32	18.64	32.49	27.29 - 32.29	-2.95 - -7.95
05289-MW08	24.00	23.76	1/29/15	2.70	21.06	13.65	3.45 - 13.45	20.55 - 10.55
05289-MW09	22.64	22.30	1/29/15	2.02	20.28	13.96	3.76 - 13.76	18.88 - 8.88
05289-MW10	21.39	21.07	1/29/15	0.47	20.60	13.62	3.42 - 13.42	17.97 - 7.97
05289-MW11	21.75	21.41	1/29/15	0.73	20.68	13.85	3.65 - 13.65	18.10 - 8.10
05289-MW13	22.29	21.96	1/29/15	1.36	20.60	13.82	3.62 - 13.62	18.67 - 8.67
05289-MW14	25.01	24.40	1/29/15	1.28	23.12	13.92	3.72 - 13.72	21.29 - 11.29
05289-MW14D	24.87	24.55	1/29/15	8.80	15.75	23.77	18.57 - 23.57	6.30 - 1.30
05289-MW15	20.76	20.33	1/29/15	0.00	20.33	13.84	3.64 - 13.64	17.12 - 7.12
05289-MW16	20.95	24.35	1/29/15	3.42	20.93	12.05	1.85 - 11.85	19.10 - 9.10
05289-MW17	22.48	22.17	1/29/15	1.92	20.25	13.91	3.71 - 13.71	18.77 - 8.77
05289-MW17D	22.42	22.28	1/29/15	7.61	14.67	30.51	25.31 - 30.31	-2.89 - -7.89
05289-MW18	21.49	24.44	1/29/15	3.04	21.40	12.58	2.38 - 12.38	19.11 - 9.11
05289-MW19	22.38	22.14	1/29/15	2.01	20.13	14.00	3.80 - 13.80	18.58 - 8.58
05289-MW19D	22.41	22.18	1/29/15	5.43	16.75	32.14	26.94 - 31.94	-4.53 - -9.53
05289-MW20	22.16	21.94	1/29/15	0.00	21.94	13.37	3.17 - 13.17	18.99 - 8.99

**NOTES:**  
Measurements are in feet  
BGS - below ground surface  
Elevations are NAVD 88

TABLE 3  
Summary of Groundwater Analytical Results  
Burrette's Service Station - UST Permit #05289  
Ridgeland, Jasper County, South Carolina

	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)
	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL	RBSL
05289-MW01	470	1700	420	760	<100	940	<0.020	NT	NT	NT	NT	NT	NT	NT	NT	NT	15
01/29/15	430	810	410	590	<4.0	520	<0.020	<1.5	<2.0	<1.0	<2.0	<4.0	<330	<1.0	<6.7	160J	<2.1
01/29/15 DUP	470	1300	480	820	<4.0	590	<0.020	<1.5	<2.0	<1.0	<2.0	<4.0	<330	<1.0	<6.7	180J	2.3J
05289-MW02	21	78	45	120	2.6J	230	<0.020	<0.74	<1.0	<5.0	<2.0	<2.0	<170	<5.0	55J	36J	23
05289-MW02D	7.8	200	120	420	<2.0	98	<0.020	<0.74	<1.0	<5.0	<1.0	<2.0	<170	<5.0	61J	<34	<2.1
05289-MW03	6400	39000	3700	19000	<200	1000	0.055	<74	<100	<500	<100	<200	<17000	<500	<34000	<34000	58
01/29/15 DUP	6500	39000	3300	17000	<200	2400	0.059	<74	<100	<500	<100	<200	<17000	<500	<34000	<34000	52
05289-MW04	01/29/15	2.9	<0.33	74	1.4	1.1	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	6.8J	2.7J
05289-MW05	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1
05289-MW06	01/29/15	3500	27000	2200	13000	1200	<0.028	<29	<40	<200	<40	<80	<6000	<200	<13000	2800J	33
05289-MW07	01/29/15	<0.13	<0.33	<0.33	0.55J	1.1	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	7.3J
05289-MW07D	01/29/15	0.25J	1.8	<0.33	0.64J	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	<2.1
05289-MW08	01/29/15	2.6	0.61J	3.1	2.1	<0.40	<0.021	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	15J	65	<2.1
05289-MW09	01/29/15	<0.13	<0.33	<0.33	<0.33	1.3	<0.040	<0.019	<0.15	<0.20	<1.0	<0.40	<33	<1.0	230	370	<2.1
05289-MW10	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	<2.1
05289-MW11	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.019	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	5.1J
05289-MW12	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.019	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	4.1J
05289-MW13	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.019	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	5.3J
05289-MW14	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.019	<0.15	<0.20	<1.0	<0.40	<33	<1.0	8.1J	<6.7	<2.1
05289-MW14D	01/29/15	30	20	1.6	6.3	<0.40	<0.040	<0.019	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	2.9J
05289-MW15	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	3.2J
05289-MW16	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	7.4J
05289-MW17	01/29/15	<0.13	0.38J	0.53J	0.60J	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	2.6J
05289-MW17D	01/29/15	12	9.3	1.0	3.6	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	19
05289-MW18	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	3.1J
05289-MW19	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	<2.1
05289-MW19D	01/29/15	7.7	5.4	0.49J	1.8	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	2.7J
05289-MW20	01/29/15	<0.13	0.49J	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	2.7J
SW01	01/29/15	<0.13	<0.33	<0.33	0.46J	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	NT
SW02	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	NT
SW03	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	NT
SW04	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	1.5J	<0.40	<1.0	<6.7	<6.7	NT
SW05	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.040	<0.020	<0.15	<0.20	<1.0	<0.40	<33	<1.0	<6.7	<6.7	NT
WSW01	06/17/14	<0.13	<1.0	<1.0	<1.0	<1.0	<0.020	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
WSW01	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
WSW02	01/29/14																
WSW03	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
WSW04	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.020	<0.15	<0.20	<1.0	1.5J	<0.40	<33	<1.0	<6.7	<6.7	NT
Field Blank	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	<0.020	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
Trip Blank 1	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	NT	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT
Trip Blank 2	01/29/15	<0.13	<0.33	<0.33	<0.33	<0.40	NT	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NT

NOTES:  
RBSL - Risk Based Screening Level  
RSL - RSLs indicate concentrations detected above the laboratory method detection limit.  
SBL - Standard Background Level  
NE - Not Established  
NT - Not Tested



REFERENCE: Ridgeland Quadrangle - 7.5 Minute Series, United States Geological Survey, 2011 (Contour Interval - 10 feet); Figure 1  
 Site Location Map by Midlands Environmental Consultants, Inc.

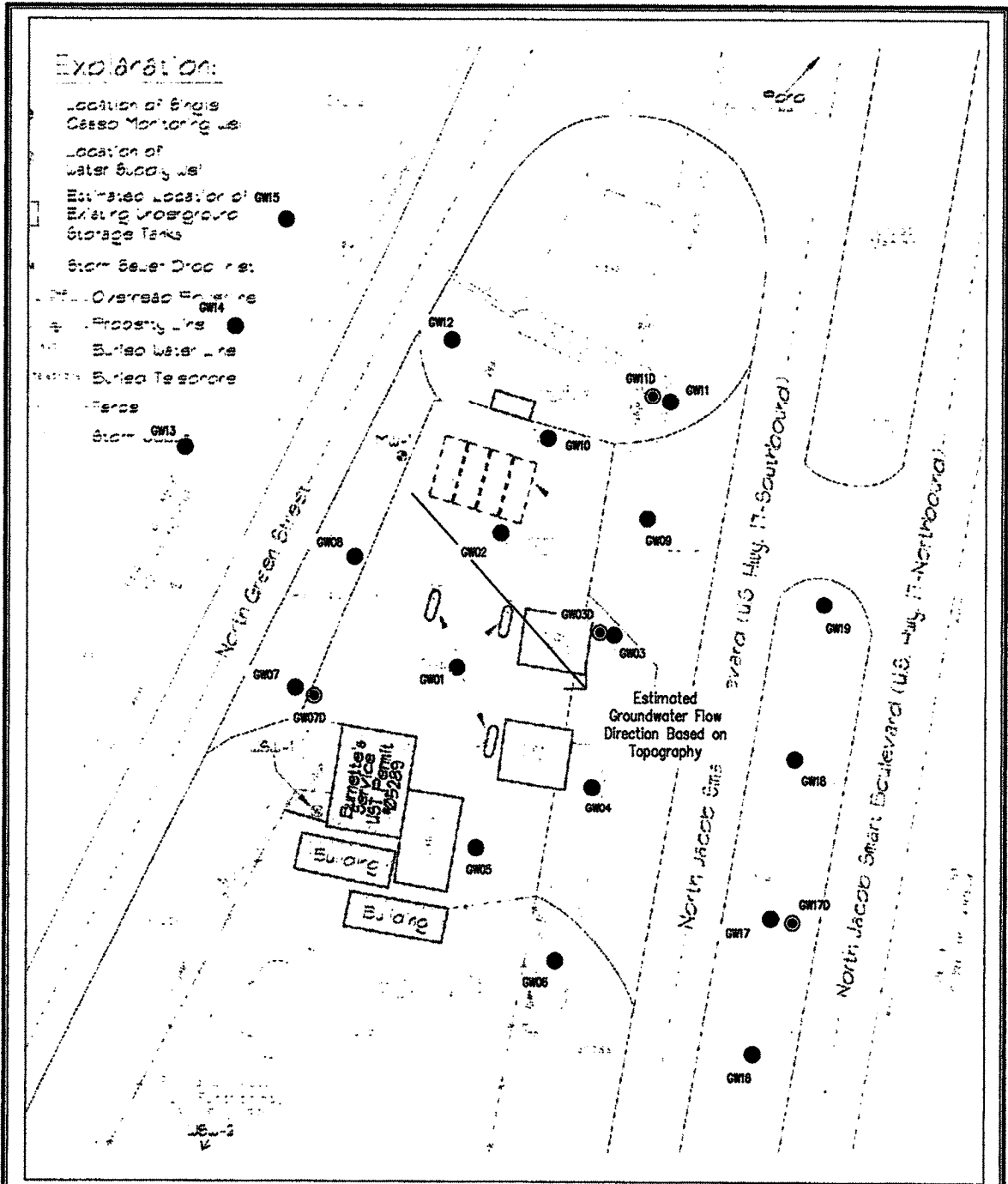


- Approximate Site Location
- ⊙ SW Surface Water
- ⊙ W Private Water Supply Well



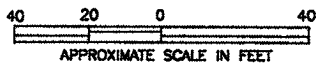
Title	Topographic Site Location Map	
Project	Burnette's Service Station (USF Permit #05289) 11577 North Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	08/20/2014	<b>petra-tech</b> ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS
REV.	02/24/2015	
Job No.	J14-080-A	Figure No. 1



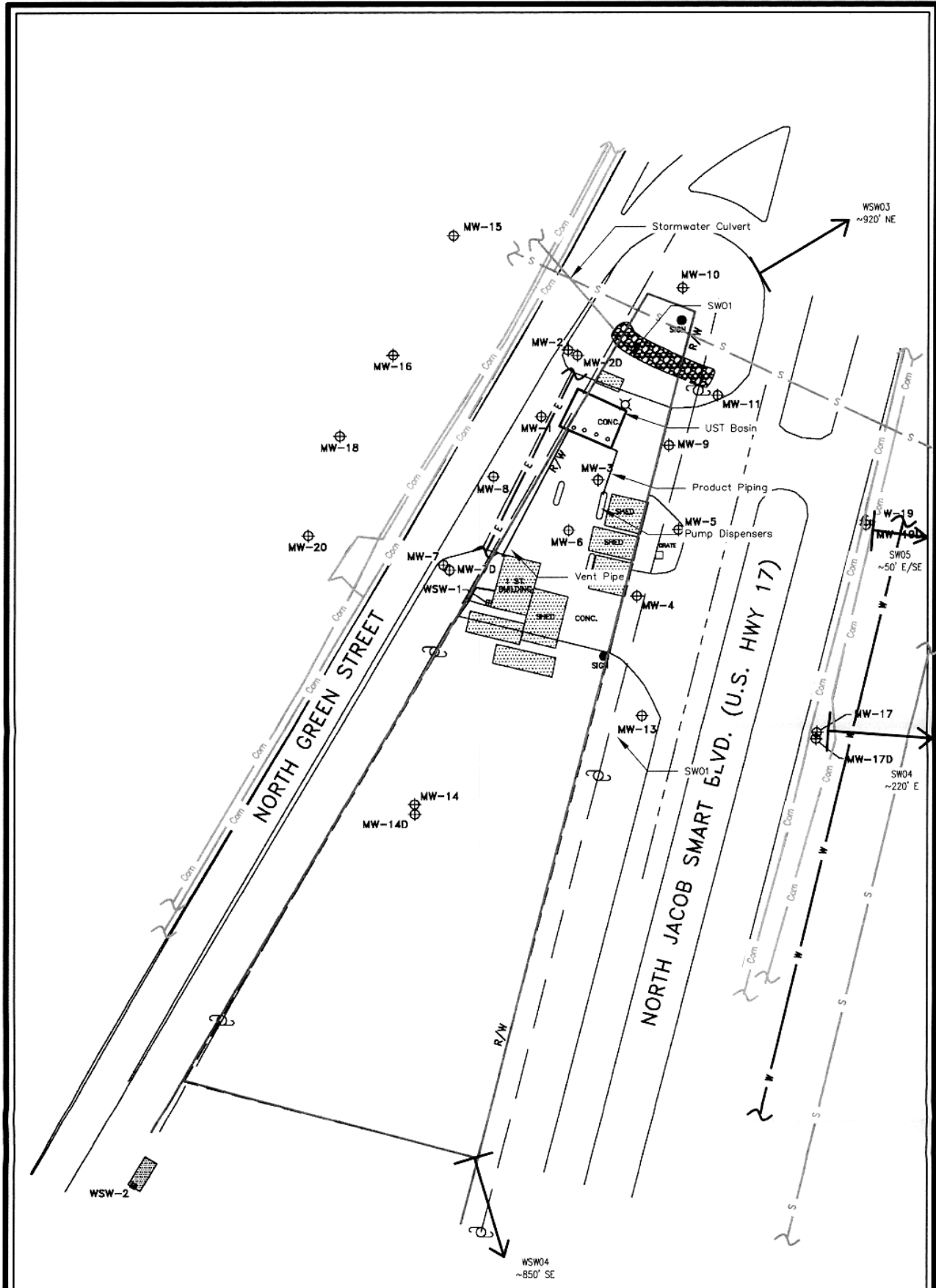


REFERENCE: Figure 2 Site Map by Midlands Environmental Consultants, Inc.

- ⊕ Existing Groundwater Monitoring Well (1)
- Shallow Groundwater Screening Boring
- ⊙ Deep Groundwater Screening Boring

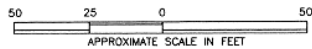


Title	Groundwater Screening Boring Location Plan		Figure No. 2
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County		
Date	08/20/2014	<b>petra-tech</b> ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	
Rev.	02/20/2015		
Job No.	J14-080-A		



REFERENCE: Site Survey by Souther Land Surveying dated 14 February 2015

- Groundwater Monitoring Well
- Approximate Location of Underground Electric Line
- Approximate Location of Underground Communication (Cable/Phone) Line
- Approximate Location of Underground Water Line
- Approximate Location of Underground Gas Line
- Approximate Location of Underground Sewer/Stormwater Line
- Approximate Property Boundary



Title	Site Base Map	
Project	Burnette's Service Station (UST Permit #05289) 11577 N. Jacob Smart Boulevard Ridgeland, South Carolina Jasper County	
Date	02/25/2015	 <small>ENGINEERING, SURVEYING &amp; CONSULTANTS</small>
Job No.	J14-080-A	
Figure No.	3	

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<u>Bus.</u>	11577 N JACOB SMART BLVD		<u>Phone</u>		
<u>Address</u>	RIDGELAND	SC 29936	<u>County</u>	Jasper	<u>District</u> Beaufort EQC Office
<u>Category</u>	Retail Sales		<u>Last Inspection</u>	09/13/96	<u>Trans. of Ownership</u>
<u>Tank Owner</u>	BURNETTE, FATE				
<u>Bus.</u>	PO BOX 1908				<u>Financial Responsibility</u>
<u>Address</u>	RIDGELAND	SC 29936-0443	<u>Phone</u>	803-726-5098	<u>Financial Mechanism</u> <u>Expiration Date</u>
<u>Operator</u>					<u>Training Date</u>
<u>Bus.</u>					
<u>Address</u>			<u>Phone</u>		
<u>Land Owner</u>					
<u>Bus.</u>					
<u>Address</u>			<u>Phone</u>		
<u>Tanks</u>	4	<u>Billable</u>	0	<u>Aband.</u>	4
				<u>Other</u>	0
	<u>Compliance Operator(s)</u>				<u>ID</u>

Significant? N    Memo Date: 02/24/01

Site Memo: 1-18-94 PER REMITTANCE ON INVOICE SAYS TO MAIL ALL INFO TO LITTLE T'S GARAGE, P.O. BOX 834, RIDGELAND, SC 29936. PHONE 726-5207. I TRIED TO CALL TWICE LEFT MESSAGE TWICE WILL NOT RETURN CALL. DMO

1-18-94 TC FROM MR. TOREZ OF LITTLE T'S HE PLANS TO PURCHASE PROPERTY. BUT HAS NOT YET. TOLD HIM TO DO A T OF O WHEN HE PURCHASES. DMO

4-18-96 Mr. Torres has purchased the property. But, he has not used the tanks. The matter of the tanks seems to be caught up in the estate of Mr. Fate C. Burnette, Sr. I informed Mr. Torres of his responsibility to either upgrade or abandon the tanks. RBS

11/20/96 Spoke with A.G. Solomons, attorney that is handling the fight over who will be the executor of the estate. This site is in a court battle with 2 people fighting over estate executor status. I have extended the due date for removal of the TOU tanks. Mr. Solomons will contact us when a decision is made by the court. It may go through several appeals. BJW

9/17/98: W Well @ 559.35'

Significant? Y    Memo Date: 06/21/02

Site Memo: FACILITY WITHIN 559.18 FT OF PLANTATION MOTEL WELL G27125

Significant? Y    Memo Date: 07/10/14

Site Memo: SCDOT will survey to determine if tank basin is in the ROW since the intersection was improved.

<u>Rel. No.</u>	1	<u>Reported</u>	12/31/91	<u>Status</u>	Confirmed - Active	<u>Product</u>	Petroleum	<u>Compl Required</u>	N
<u>Active Tnks</u>	NFA	<u>Fin. Type</u>	With SUPERB Cos	<u>BCA / Score</u>	2AB 1443	<u>Compliance Met</u>	Y		

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<u>Confirmed</u>	03/23/92	<u>Emer. Resp.</u>		<u>Superb Qualified</u>	N	<u>Compliance Met Dt</u>	
<u>CU Init.</u>	06/04/14	<u>Abate. Met</u>	11/24/97	<u>Superb Determ. Dt</u>		<u>Fin Res Mechanism</u>	
<u>CU Compl.</u>		<u>Transferred</u>		<u>Project Manager</u>	BRYANT, JOHN C		
<u>CU &gt; MCL</u>		<u>Source</u>	UST	<u>Responsible Party</u>	BURNETTE SR, FATE C		

<u>Ranking</u>	<b>SCRBCA:</b>	2AB - Watersupply wells < 1 yr dwn grade				<u>FP Thick:</u>	Unknown	
<u>Rel. No.</u>	1							
<u>Analyticals</u>	<u>Contaminant</u>	<u>ug/L</u>	<u>RBSL</u>	<u>Score</u>	<u>SSTL's</u>	<u>Other Contaminants</u>	<u>ug/L</u>	<u>SSTL's</u>
	Benzene	6500	5	1300		EDB	.059	
	Toluene	39000	1000	39		LEAD	58	
	Ethylbenzene	3700	700	5				
	Xylene	19000	10000	2				
	Naphthalene	2400	25	96				
	MTBE	13	40	0				
	<b>Total Score:</b>	1443						
<u>Receptor Ttype:</u>	PRIVATE	<u>Ground Water Flow:</u>	E					
<u>Distanced to Receptor:</u>	1	<u>Seepage Velocity:</u>	.42					
<u>GW Depth:</u>	0							

<u>SuperB Check List</u>	<u>Original Qualified Date:</u>	07-MAY-98						
<u>Rel. No.</u>	<u>Release Reported:</u>	12/31/91						
1	<u>Deductible Group from Release Report Date:</u>	No deductible						
Y	<u>All tanks Registered? Tanks must be registered Before eligible.</u>							
Y	<u>Fees Paid to date?</u>							
Y	<u>Contamination requiring Remediation confirmed?</u>							
	<u>Enviro Company</u>	<u>Deductible</u>						<u>Limit Amount</u>
N	<u>Enviro Insurance?</u>							
	<u>A written statement of No Insurance dated:</u>							
	<u>Abatement Met:</u>	11/24/97	<u>Abatement Method:</u>	Permanently closed				
	<u>Approved by:</u>	CATHCART, ERIC F	<u>Approved date:</u>					<u>Qualified?</u> N

<u>Tank No.</u>	1	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	2	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-05289 Facility: BURNETTES SERVICE STATION**

<u>Tank No.</u>	3	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>		<u>Chem.</u>	
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	4	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	11/11/11	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	06/22/87	<u>Capacity</u>	3,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	BURNETTE, FATE	<u>Last Use</u>	
		<u>Aband.</u>	11/11/11	<u>Method</u>	RG	<u>CAS No.</u>		<u>Chem.</u>	
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	