

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MR CHARLES JACKSON JR JACKSON OIL COMPANY INC PO BOX 968 CHERAW SC 29520-0968

OCT 2 4 2012

Re:

QAPP Contractor Addendum Directive for Groundwater Sampling Event

Windsor Mart, 820 Chesterfield Hwy, Cheraw, SC

UST Permit #02314

Release reported December 6, 1991

Standard Limited Assessment Report received July 16, 1997

Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) reviewed the referenced report. The report indicates presence of chemicals of concern in the groundwater.

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, sampling of all existing monitoring wells as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. The groundwater sampling event must be conducted in accordance with the UST QAPP and must be conducted in compliance with all applicable regulations once the site specific QAPP Contractor Addendum is approved. A copy of the UST QAPP is available at http://www.scdhec.gov/environment/lwm/html/Qapp.htm.

Our records indicate that the site rehabilitation contractor you selected is no longer in business. Please complete the enclosed Owner/Operator Information Sheet and return it to my attention within 15 days of the date of this letter. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor. For your convenience, a list of AGENCY certified environmental companies is enclosed.

Please have your contractor complete and submit the QAPP Contractor Addendum and cost agreement within thirty (30) days of the date of this letter. The cost agreement should include sampling of the existing wells and each water supply well within 1,000 feet of this facility. Please note that approval from the Agency must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #02314. If you have questions or need additional information, feel free to call me at (803) 896-6395.

Sincerely,

Minda Hornosky, Hydrogeologist

Assessment Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Owner/Operator Selection Form

List of Certified Contractors

cc: Technical File

Return to the attention of Minda Hornosky

UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of the UST Permit #02314, I would like to use the contractor or person(s)* listed below and request that they represent me for:
Groundwater Sampling EventAll future assessment scopes. **
Name of Contractor/Person(s)Address
Telephone Number
Note: After September 20, 1997, rehabilitation activities must be performed by a SC Certified Site Rehabilitation Contractor.
*indicate if the person listed is your own employee
** if you would like the contractor to perform all future assessment activities at this and/or other UST sites that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.
2. FINANCIAL OR FAMILIAL RELATIONSHIP
Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? Yes No (please initial)
<u>Financial Relationship</u> : A connection or association through a material interest of sources of income, which exceed five percent of annual gross income from a business entity.
<u>Familial Relationship</u> : A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancée.
3. PAYMENT
For eligible costs, you can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, to be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (check one)
For eligible costs, I request that payment be made to me after I have paid the contractor.
For eligible costs, I request that payment be made directly to the contractor.
(Note: all costs must receive prior financial approval from the Agency regardless of payment option.)
Underground Storage Tank Owner/Operator Signature
Printed Name
Date Signed

Return to the attention of Minda Hornosky

UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION USAGE TANK (UST) OWNER/OPERATOR USAGE TANK (UST) OWNER/OPERATO
1. CONTRACTOR OF CHOICE
As the UST Owner/Operator of the UST Permit #02314, I would like to use the contractor or person(s) lister to make and request that they represent me for:
Name of Contractor/Person(s) Address P.D. B of 25 Summer ville, 5.C. 29484
Telephone Number
Note: After September 20, 1997, rehabilitation activities must be performed by a SC Certified Site Rehabilitation Contractor.
*indicate if the person listed is your own employee
** if you would like the contractor to perform all future assessment activities at this and/or other UST sites that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.
2. FINANCIAL OR FAMILIAL RELATIONSHIP
Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? Yes No (please initial)
<u>Financial Relationship</u> : A connection or association through a material interest of sources of income, which exceed five percent of annual gross income from a business entity.
<u>Familial Relationship</u> : A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancée.
3. PAYMENT
For eligible costs, you can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, to be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (check one)
For eligible costs, I request that payment be made to me after I have paid the contractor.
For eligible costs, I request that payment be made directly to the contractor.
(Note: all costs must receive prior financial approval from the Agency regardless of payment option.)
Underground Storage Tank Owner/Operator Signature
Underground Storage Tank Owner/Operator Signature Printed Name Date Signed
Date Signed 10/29/12



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MR CHARLES JACKSON JR JACKSON OIL COMPANY INC PO BOX 968 CHERAW SC 29520-0968

SEP 1 1 2013



Re:

QAPP Contractor Addendum Directive for Groundwater Sampling Event

Windsor Mart, 820 Chesterfield Hwy, Cheraw, SC

UST Permit #02314

Release reported December 6, 1991

Standard Limited Assessment Report received July 16, 1997

Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report. The report indicates the presence of petroleum chemicals of concern in the groundwater above Risk Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, sampling of all existing monitoring wells plus all water supply wells and surface water bodies within 1,000 feet of this facility as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0 is necessary. The groundwater sampling event must be conducted in accordance with the UST QAPP and in compliance with all applicable regulations once the site specific QAPP Contractor Addendum is approved. The QAPP Contractor Addendum must be prepared using the format as outlined in the QAPP Revision 2.0, available on-line at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm. Your contractor must complete and submit the QAPP Contractor Addendum within thirty (30) days of the date of this letter. Please note that approval from the Agency must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #02314. If you have questions or need additional information, feel free to call me at (803) 898-7542.

Sincerely,

Minda Hornosky, Hydrogeologist

Assessment Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

cc: Terry Environmental Services, PO Box 25, Summerville, SC 29484

Technical File

Quality Assurance Project Plan Addendum to the SC DHEC UST Programmatic QAPP, Revision 2.0

For

Windsor Mart, UST Permit #02314

820 Chesterfield Highway, Cheraw, South Carolina



Prepared by: Kelly K. Cone, P.G.

e-mail: kcone@terryenvironmental.com

Date: October 24, 2013

Terry Environmental Services, Inc. (UCC #0223)



Approvals	
Minda Hornosky	Date
SC DHEC Project Manager Signature	
Jason A. Terry Contractor QA Officer Signature	Date 10/24/13
Kelly K. Cone ///Cone	Date 10/24/13
Site Rehabilitation Contractor Signature	
Ashley Amick	Date_10/24/13
Access Analytical Laboratory Director Signature	
Scott Bailey Syndow Bands Marine Br. Scott Bailey Daw 17th Core 20 pt/3 15/46.32	Date 10/24/13
GCAL Laboratory Director Signature	



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DESCRIPTION

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A3 Distribution and Project Organization List

Table 1A Addendum Distribution and Project Organization List

Name	Title	License/ Number/ Exp. Date	Organization/Address	Phone	Fax	Email
Minda Hornosky	SC DHEC Technical Project Manager		SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-898- 7542	803-898- 0673	hornosms@ dhec.sc.gov
Jason Terry	Site Rehabilitation Contractor/ President/ Quality Assurance Officer	SC PG 2171 6/30/2015	TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873- 8200	843-873- 8765	iterry@terry environment al.com
Kelly Cone	Site Contractor Project Manager	SC PG 2509 6/30/2015	TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873- 8200	843-873- 8765	kcone@terry environment al.com
Randy Brand	Field Director/ Driller	SC Driller B1485 6/30/2014	TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873- 8200	843-873- 8765	rbrand@terr yenvironmen tal.com
Ashley Amick	Laboratory Director		Access Analytical, Inc., 7478 Carlisle St., Irmo, SC 29063	803-781- 4243	803-781- 4303	aamick@axs -inc.com
Scott Bailey	Laboratory Director		Gulf Coast Analytical Laboratories, Inc., 7979 GSRI Avenue, Baton Rouge, LA 70820	225-769- 4900	225-767- 5717	scott.bailey @gcal.com
Travis Darden	Field Staff/Team Leader		TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873- 8200	843-873- 8765	tdarden@ter ryenvironme ntal.com
John Kerr	Field Staff/Team Leader		TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873- 8200	843-873- 8765	ikerr@terrye nvironmental .com
Brian Spillane	Field Staff/Team Leader		TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873- 8200	843-873- 8765	bspillane@t erryenviron mental.com

It is understood that certification records must be produced if requested by SCDHEC.

The SCDHEC Project Manager is responsible for direct oversight of TERRY during the assessment and site rehabilitation of the release. The President/Quality Assurance Officer is responsible for the overall quality assurance and quality control during the implementation of the scope of work. The Project Manager is responsible for the successful project execution and completion as per the SC DHEC UST QAPP, Revision 2.0 and the associated site specific addendum.

The Field Director is responsible for all field activities including scheduling the individual Field Staff and identifying the Field Team Leader for the directed field activities. The Field Staff is responsible for performing field activities as directed by the Field Team Leader and the Field Director. The Lab Director is responsible for assuring all laboratory analyses are conducted in accordance with the standard methods for each parameter to be analyzed.



A4 Problem Definition/Background

A UST Site Assessment was submitted by Duncan Environmental Associates, Inc. (Duncan) in December 1991 for SUPERB qualification documenting soil contamination on site. On January 21, 1997 three 4,000 gallon gasoline USTs were removed from one excavation. A UST Closure Report was submitted by Duncan confirming minimal soil contamination at the subject site. A 20,000 gallon three compartment UST was subsequently installed at the subject site; 10,000 gallons of regular unleaded, 8,000 gallons of premium unleaded, and 2,000 gallons of kerosene.

An Initial Groundwater Assessment (IGWA) was submitted by Duncan in April 1997 and groundwater contamination was documented in MW-1. Duncan submitted a Standard Limited Assessment (SLA) Report in July 1997. Three additional monitoring wells (MW-2 through MW-4) were installed and the groundwater contamination was confirmed.

TERRY was selected as the contractor of choice by CD Coleman Oil Company in July 2005. This is the first scope of work for TERRY.

Please answer the following: Does this project fall under UST or Brownfields area? UST

A5 Project/Task Description

- 1. Per SCDHEC request, TERRY plans to conduct a comprehensive groundwater sampling event. Shallow monitoring wells MW-1 through MW-4 will be sampled. The existing monitoring wells have not been sampled since June 1997 and will require purging. Based on the USGS topographic map there are two drainage features located approximately 800 to 1,000 feet to the east and west of the subject site which are proposed to be sampled if water is present.
- 2. The work will begin within <u>7 days</u> after cost approval and report will be submitted within <u>60 days</u>.
- 3. Are there are time or resource constraints? None are anticipated.

A6 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)

The site is located at 820 Chesterfield Highway, Cheraw, South Carolina. The site is bordered to the west by Windsor Drive, to the south by Chesterfield Highway (Highway 9), and is surrounded by mainly commercial properties with residential properties to the east and further to the north. The general site location is shown on a topographic map as Figure 1, Attachment 1. A site map generated from the previous contractor's base map is provided as Figure 2, Attachment 1.



A7 Certification

The Following Laboratory(ies) will be used for this Project:

Commercial Lab(s)

Full Name of the Laboratory: Access Analytical, Inc.
Name of Lab Director: Ashley Amick
SC DHEC Certification Number: 3257500
Parameters this Lab will analyze for this project: n/a
Full Name of the Laboratory: Gulf Coast Analytical Laboratories, Inc.
Name of Lab Director: Scott Bailey
SC DHEC Certification Number: 73006001
Parameters this Lab will analyze for this project: BTEX, Naphthalene, MTBE, 1,2-DCA, Ethanol,
and Oxygenates by EPA 8260B, EDB by EPA 8011, and I ead by EPA Method 6010C

Access Analytical (Access) works in a unique, cooperative relationship with Gulf Coast Analytical Labs (GCAL) in Baton Rouge, LA. Access serves as an authorized local representative providing project management and local services to its clients. The relationship between the two companies works in the following manner: Client sample kits are prepped at the Access office using pre-cleaned and batch certified environmental sample containers provided by Access Analytical (containers are purchased from Daniels Scientific).

Prepared kits are then delivered to clients for collection of samples in the field. Once field work is completed samples are returned to Access Analytical. Samples are then shipped according to the established SOP from the Access office in Irmo, SC to GCAL. Samples are shipped on a daily basis via express overnight delivery. Samples are then processed at the laboratory and the subsequently generated data is validated by the QA staff. Once data is validated and approved it is transmitted electronically back to Access Analytical for a second tier review and final invoicing. Second tier review helps to insure accuracy and precision of sample data as well as compliance with local SC rules and regulations. After second tier review of the data is final completed reports are released to clients via email and/or postal mail. Final reports indicate that samples were analyzed at GCAL, are signed off on by GCAL and Access management and list the DHEC certification number of the lab.



A8 Documents and Records

Personnel will receive the most current version of the QAPP Addend	dum	lu	ı	į	ź	ď	c	c	c	c	ĺ	'n	1	1	r	ı	•	ε	k	i	ď	ſ	b	ı	ı	ź	o	ı	۱	t	4	•)	ρ	ı)	Ρ	ı	ì	ľ	1)	2	C	C	C	ĺ	ĺ	1	•	•	2	e	e	•	1	1	h	h	h	ł	ı	t	ť	Í	Í	1	1	١.	•	,	F	f	f	í	ď	ď	ď	þ)	0	o	c	(•	1	1	ì	7	n	7		>)	o	c	ć	i	i	í	3	s	S	S	•	1	r	r	ı	þ	2	a	¢	ć	4	7	,	L	١	1			۱	f	Í	1	ı	1	n	,	1	9	6	e	E	í	1	r	r	7	7	r	,	ı	ı	ı
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xxxxx US Mail	Courier _	Hand delivered	Other (please specify):	
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Table 2A Record Identification, Storage, and Disposal

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Correspondence	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Analytical Data	Access/GCAL	Hardcopy/	Corporate Office/ Secured	10 years
		Electronic	Storage Facility – 10 yrs	
Field Logs	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Well Logs	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Invoicing	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Manifest	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Sampling Logs	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Figures	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Surveys	TERRY	Electronic	Corporate Office – 5 yrs	5 years after project completion
Disposal Manifest	JBR Environmental Services	Hardcopy	Corporate Office – 5 yrs	5 years after project completion



Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Table 3A Sampling Activities

Item	Start Date	End Date	Comments
QAPP Preparation/Submittal	10/22/2013	10/24/2013	Allowing 30 days for review and approval
Sampling Wells	11/25/2013	11/25/2013	
Waste Disposal (via GAC)	11/25/2013	11/25/2013	
Receive/ Review Lab Data	12/9/2013	12/10/2013	
Preparation of Report	12/11/2013	12/12/2013	
Report Review and Revision	12/13/2013	12/13/2013	
Submit Report to DHEC	12/13/2013	12/13/2013	
	Note: A	All dates subje	ct to receipt of approved SCDHEC Directive

B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the SC DHEC UST Programmatic QAPP, Revision 2.0.

Estimate the number of samples of each matrix that are expected to be collected:

Soil	n/a
Ground Water from monitoring wells	Four (4)
From Drinking/Irrigation water wells	n/a
From surface water features	Two (2)
Duplicate samples	One (1)
Field Blanks	One (1)
Trip Blanks	One (1)
Total number of Water samples	Nine (9)

The samples will be (check as many as apply): X Grab ____Homogenized ____Split

If homogenized or split are checked please indicate how will it be done and the equipment needed. n/a

If decontamination procedures differ from Appendix H, please provide details. n/a

Identify any equipment and support facilities needed. This may include such things as Fed-ex to ship the samples, a Geoprobe, field analysis done by another contractor (who must be certified), and electricity to run sampling equipment. FEDEX, general sampling equipment and meters. Samples will be delivered to Access Analytical at the completion of field activities. If Access is closed for business at the completion of field activities the samples will be held at the TERRY office overnight until they are picked up by a lab courier from Access the next business day. Samples are then shipped according to the established SOP from the Access office in Irmo, SC to GCAL. Samples are shipped on a daily basis via express overnight delivery.



Address the actions to be taken when problems occur in the field, and the person responsible for taking corrective action and how the corrective action will be documented.

Table 4A Field Corrective Action

Failure	Response	Documentation	Individual Responsible
Meter failure	Troubleshoot, repair, or replace meter	In field logbook	Field staff on site
Water level meter failure	Troubleshoot, repair, or replace meter	In field logbook	Field staff on site
Interface probe failure	Troubleshoot, repair, or replace meter	In field logbook	Field staff on site

Note: See Table 6A for a list of specific meters and sampling equipment to be used.

B3 Sample Handling and Custody

- 1. How will the samples get from the Site to the Lab to ensure holding requirements are met? Samples will be packed in coolers of ice and proper temperatures maintained until they can be delivered to Access Analytical at the completion of field activities. If Access is closed for business at the completion of field activities the samples will be held at the TERRY office overnight until they are picked up by a lab courier from Access the next business day. Samples are then shipped according to the established SOP from the Access office in Irmo, SC to GCAL. Samples are shipped on a daily basis via express overnight delivery. Arrangements will be made prior to sample collection for a site pick up via courier if any analytical methods have a limited hold time.
- 2. If sample preservation procedures differ from the UST Programmatic QAPP, please provide details.
- 3. If chain of custody procedures differ from the UST Programmatic QAPP, please provide details. n/a Access Chain of Custody records are used (Attachment 2).



B4 Analytical Methods

1. Identify the SOPs which will be used to analyze the samples, the method which the SOP references and the equipment or instrumentation that is needed:

Table 5A Analytical SOPs and Referenced Methods

Parameter	Method Referenced	Comments		
/OC's (BTEX/Napth/MTBE/DCA)	8260B			
Oxygenates	8260B			
EDB	8011			
Lead	6010C			
рН	EPA 9040C	Field SOP		
Dissolved Oxygen	SM 4500-0G	Field SOP		
Specific Conductivity	EPA 9050A	Field SOP		
Turbidity	EPA 180.1	Field SOP		
Temperature	SM2550-B	Field SOP		

Provide SOPs for the Kerr Method or the Ferrous Iron Method if these are parameters for this study. This
can be attached or written here. If attached please note that it is an attachment and where it is located (if
applicable).

B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the SC DHEC UST Programmatic QAPP, Revision 2.0. If procedures for QC differ from the Programmatic QAPP, please provide details.

B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. Identify all field equipment needing periodic maintenance, the schedule for this, and the person responsible.

Table 6A Instrument and Equipment Maintenance

Instrument	Serial Number	Type of Maintenance	Frequency	Person Responsible
Horiba U-52 pH/DO/Conductivity/ Turbidity/ Temp.	1F2LBYY1/ VWKAUMKJ	Routine, cleaning, charging	Following every use	Randy Brand
Interface Probe Depth to Water/ Free Product/Total Depth	2671	Routine, cleaning, charging	Following every use	Randy Brand
Tornado Purge Pump	P-10330	Routine, cleaning	Following every use	Randy Brand
Fisher Scientific Digital Thermometer	111538176	Routine, cleaning	Following every use	Randy Brand



B7 Instrument Calibration and Frequency

- Identify equipment, tools, and instruments for field or lab work that should be calibrated and the frequency.
- 2. Describe how the calibrations should be performed and documented, indicating test criteria and standards or certified equipment.
- 3. Identify how deficiencies should be resolved and documented. Identify the person responsible for corrective action.

See Table 7A for information regarding the field equipment. See Attachment 3 for information regarding the laboratory equipment. Section 6 "Facility Description and Equipment" of the laboratory Quality Assurance Plan is attached.

Table 7A Instrument Calibration Criteria and Corrective Action

Instrument	Serial Number	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA
Horiba U-52 pH/DO/ Conductivity/ Turbidity/ Temp.	1F2LBYY1/ VWKAUMKJ	Following manufacturer's instructions	Prior to sampling event; after 4 hours of use; at completion of each event	Calibrates as per SCDHEC guidelines; Section B7 of the UST QAPP, Rev 1.0	Recalibrate, repair, replace	Randy Brand
Interface Probe Depth to Water/ Free Product/Total Depth	2671	Measured by Invar steel surveyor's chain or equivalent	Annually	Calibrates as per SCDHEC guidelines; Section B2 of the UST QAPP, Rev 1.0	Recalibrate, repair, replace	Randy Brand
Fisher Scientific Digital Thermometer	111538176	Tested by NIST Certified Thermometer	Annually	Calibrates as per manufacturer's guidelines	Recalibrate, repair, replace	Randy Brand

^{*}This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP.

B8 Inspection/Acceptance Requirements for Supplies and Consumables

1. If procedures for storage, handling, or transport of supplies/consumables differ from the UST Programmatic QAPP, please provide details.

2171.9 QAPP Plan 10 10/24/13



B9 Data Acquisition Requirements (Non-Direct Measurements)

- Identify data sources, for example, computer databases or literature files, or models that should be accessed or used.
- 2. Describe the intended use of this information and the rationale for their selection, i.e.,
- 3. Provide its relevance to project.
- 4. Indicate the acceptance criteria for these data sources and/or models.

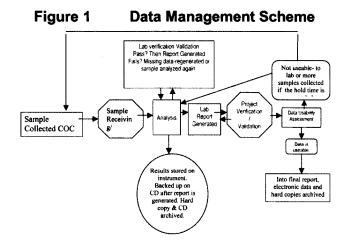
Table 8A Non-Direct Measurements

Data Source	Used for	Relevance	Justification for use in this project	Comments
SCDHEC Freedom of Information Office	Historical Data	Site History	To obtain site and release history.	

5. Identify key resources/support facilities needed. -n/a

B10 Data Management

1. Describe the data management scheme from field to final use and storage.



- 2. How does the lab and field staff ensure that no unauthorized changes are made to the chain of custody, sampling notebooks, laboratory notebooks and computer records?
 - All data is recorded in bound books and/or by instrument printout. If data is recorded by hand, it must be done in ink. It is inappropriate to have pencils, erasers, or correction fluid at the bench. Data is kept either as a hardcopy, electronically, or both. All data must be protected by the use of audit trails, passwords, and controlled logbooks. If changes or corrections are necessary, it must be performed in a way that maintains the integrity of the data. Changes must be initialed and dated and corrections made using a single line strikeout. If the record does not allow space to clearly show the change, write it in the comments or at the bottom of the page. If electronic files must be changed, the file must be renamed so original information is not lost. If an entire batch of data must be reprocessed all files must be renamed. Reasons for doing so must be written in the comments and/or fully documented using a correction form. At no time shall data be obliterated for any reasons.
- 3. How does the lab ensure that there are no errors in sample records including times when sample information is compiled, data calculated and/or transmitted.



All data reported includes three levels of data review including calculations used to generate the reported analytical results. This review is performed by the analyst performing the test, the supervisor, and report generation manager or designee. Data reduction includes all activities that convert instrument/computer responses into reportable results. Manually entered information is reviewed for accuracy in the LIMS and in the signed copy of the client report.

4. How will the data be archived once the report is produced? How can it be retrieved? (This applies to both electronic and hard copies).

The laboratory will retain all records related to sample analysis including raw test data, calculations, derived data, calibrations and copies of test reports including chain of custodies. These records are archived in accordance with regulatory requirements for a minimum of ten (10) years or as required by specific client contracts. Software/hardware permitting the access of electronic data must be maintained. The copy of client reports is stored in a room requiring key-card access. All reports must be signed out using the archived reports logbook. Client reports and chain of custodies are also scanned for electronic storage. Written and printed data records (bench sheets, logbooks, electronic printouts, etc.) are scanned before being boxed and placed in storage. Electronic data is stored on a dedicated server, which is backed-up daily. The safety officer keeps safety and disposal information. Archived data is stored on-site until capacity is met. The oldest archived data is then moved to a secure storage facility. The storage and onsite facility are monitored and protected from fire and theft. Electronic data storage is free from magnetic sources. It is the goal of the lab to have redundant copies (hard and electronic) to prevent loss of records due to being misplaced or environmental deterioration or catastrophe.

Section C Assessment and Oversight

C1 Assessment and Response Actions

1. The Contractor is supposed to observe field personnel daily during sampling activities to ensure samples are collected and handled properly and report problems to DHEC within 24 hours. Please state who is responsible for doing this and what observations will be made, and how those observations will be made. Will this person have the authority to stop work if severe problems are seen?

The Field Team Leader (Travis Darden, John Kerr, or Brian Spillane) identified by the field director during scheduling will observe that the proper sampling procedures are followed in accordance with the SC DHEC UST QAPP, Revision 2.0. Yes, the Field Team Leader (Travis Darden, John Kerr, or Brian Spillane) will have stop-work authority.

2. The SCDHEC UST QAPP, Revision 2.0 states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done by the contractor on the Commercial Lab(s) that are being used-other than their certification audit?

Access Analytical is a DHEC certified lab for field parameters and participates in annual PT studies provided by Wibby Environmental. Access does not hold other certifications as it is not required for this work.

GCAL is certified by DHEC and numerous other states. In addition to the applicable SCDHEC certifications GCAL also participates in Client Assessments. GCAL's clients can require assessment using a third party assessor such as Environmental Standards. The contracted assessment team verifies that GCAL is meeting the requirements of the clients contract and is compliant with EPA requirements and compliant with state regulations.

When or how often are these done?

Answer to this question is included in the above response.

Who will the results be given to and who has the ability to stop work if problems are severe?

The results of the audits are reviewed by the associated regulating bodies. Any of these organizations have the right to cease work being done which falls under their program area if sufficient deficiencies are found.

The laboratory reports will also include full QA/QC data and these data will be reviewed for quality issues for each set of samples submitted. Quality issues will be brought to the attention of the Laboratory Director for explanation and resolution. The TERRY Project Manager will have full authority to stop work and chose an alternate laboratory if needed. Any change in laboratory choice will be communicated with the SCDHEC Project Manager prior to the change.

In addition the Site Contractor Project Manager will perform an internal Quality Assurance/Quality Control review of each laboratory report. The results will be provided to the Site Contractor Quality Assurance Officer and both the Project Manager and Quality Assurance Officer will have stop-work authority if severe problems are noted.

C2 Reports to Management

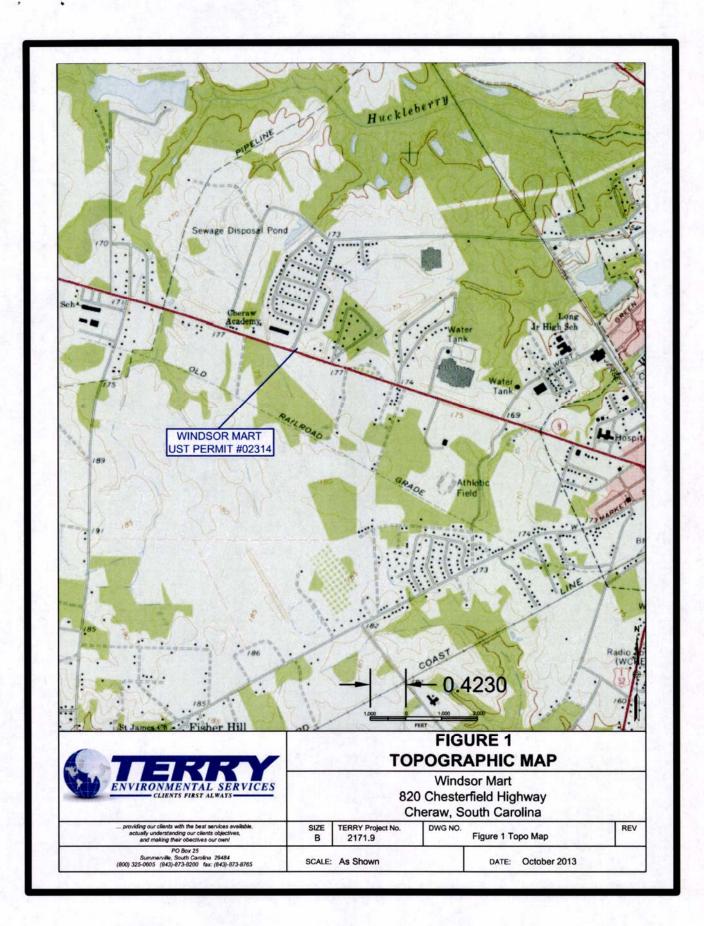
See the SC DHEC UST Programmatic QAPP, Revision 2.0 (UST Master QAPP).

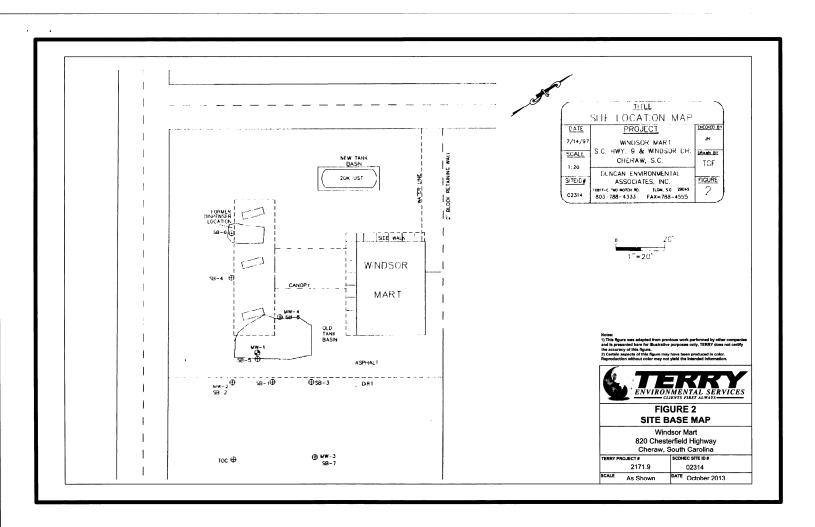
Section D Data Validation and Usability

See the SC DHEC UST Programmatic QAPP, Revision 2.0 (UST Master QAPP).

ATTACHMENT 1

Figures





ATTACHMENT 2

Chain of Custody

LAB USE ONL	Y	A	cces	ss /	۱na	lytica	ai - Cn	ain c	ot Ci	ISTC	ay	нес	ora	LAB	USE ONLY	
Project Work Order #			PO #					Acce	ss Qu	ote#			Labo	ratory ID:		
Company Name:					Preserv (*see ci						T	TTT		9	ACCESS	
Report To:					Contain (*see co	ner Type:		1		+	+-	+	- O	//	ANALYTICA	L, INC.
Address:				1	1 300 0		1	_		_	+	+ +	_ ~			
City: St	ate: Zip:					YSIS: ↓							7478 Carli Irmo, SC 2	9063		781-4243 781-4303
Phone:	Fax:					NAL							Preservative C	www.axs odes (place correspon CL; 2 = HNO; 3 = H.S set w/ NaHSO; & CH		e analysis field);
Email:						LAB							6 = Method 503: "Metrics Codes (GW = propert w	set w/ NaHSO & CH place corresponding of the WW - waste week	OH, 7 = NeOH/ZnO ode at metrix column	AC, 8 = H.PO.
Project ID:						STED							SL = sludge, A = (specify in comm	place corresponding citer, WW = waste wate r air, IW = industrial water rents section)	ste, WO = waste oil	OT a other
Sampled By:						REQUESTED LAB ANALYSIS:								Codes: CWA = Clear ater Act (for drinking w , ground waters and w E G = Glass, P		ewaters), SDWA = and Hazardous
Sample ID/Description [Date Time Collected: Collecte	Type:	Matrix (see codes	Program Area (see codes)	TOTAL # of containers	- -								NOTES / Composite please use space	OMMENTS	
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Turnaround Time:	Project Location	n:		Reli	quishe	ed By:			Rece	ived B	/ :		Date (mm-dd-yy)	Time (24HR)	Sample Te Receip	mp. Upon t (°C):
Standard RUSH*	sc											.,			(°C)	(N/A)
*Date Required:	NC										~				(°C)	(N/A)
(For rush work, results emailed/faxed by end of busi-	Other														(°C)	(N/A)
ness day on date required)	(specify)														(°C)	(N/A)

ATTACHMENT 3

Laboratory Facility
Description and Equipment

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6 Facility Description and Equipment

6.1 Laboratory Facilities

GCAL is a full service environmental laboratory. The laboratory was established in 1979 with a staff of two and has grown to its present size of over 50 employees operating in a modern laboratory space of 20,000 square feet.

The laboratory's working areas are subdivided into areas for instrumental analysis, wet chemistry and sample preparation. These areas are designed to allow for a safe and comfortable working environment with special attention having been given to ventilation, airflow patterns and environmental controls. Administrative and Marketing areas are located for optimization of supervision and to allow for efficient handling of paperwork and results. The laboratory is protected by an electronic security and fire monitoring system. A floor plan of the facility is included in Appendix D.

6.2 Procurement and Inventory Control

Chemical reagents, solvents, gases, glassware and general chromatographic supplies are ordered as needed to maintain sufficient quantities on hand for use. Purchase orders are maintained as an inventory control of materials ordered by the laboratory. All orders are processed through central receiving and routed to the appropriate departments. Routine supplies are maintained on site in an inventory control stock room.

The purchase of analytical instrumentation is based on anticipated sample volume and the need to maintain superior quality data. Specifications are carefully examined to be sure new instrumentation meets current and anticipated needs. Warranty and service contract information is gathered at the time bids are reviewed and this information is considered in making the final selection. An extensive performance check-out before the instrument is accepted is mandatory. New equipment must undergo a rigorous method validation before being put into production. Operators of new instruments are sent to training courses if necessary.

Inventory records are maintained for all major capital equipment. Major suppliers of consumable items are:

Allometrics Templet & Templet Dionex
Fisher Scientific Company Supelco CPI
Environmental Express Perkin-Elmer Shimadzu

6.3 Capital Equipment

Laboratory equipment and instrumentation are maintained in compliance with instrumentation manuals. All equipment is kept in working condition to allow for conformity to each approved method. The key instrumentation such as Gas Chromatography, Gas Chromatographs/Mass Spectrometers, ICP and Atomic Absorption Spectrometers has maintenance contracts with their

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respective suppliers. A list of instrumentation and equipment is maintained by the QA/QC Department and is included in Appendix C.

6.4 Equipment Operation and Calibration

Equipment is defined as any non-disposable mechanical and/or electronic device used in the generation or measurement of data.

- 6.4.1 The calibration of instruments and support equipment is required to ensure that the analytical system is operating correctly and functioning within acceptable precision, accuracy and sensitivity limits. Calibration is defined as the systematic determination of the relationship of the response of the measurement system to a known standard. The calibrations or calibration checks are performed with reference standards traceable to primary standards (e.g. NIST or other certified standards). If traceable chemical standards are not available, standards are prepared according to the laboratory quality control procedures or the project's requirements. The calibration requirements for each type of equipment or instrument are defined in the standard operating procedures. Additionally, specific requirements are defined in a project plan. Table 6-1 summarizes the calibration requirements of the lab.
- 6.4.2 It is the responsibility of the analyst to verify that the instrument configuration and operating conditions used satisfy the analytical requirements and to maintain quality control data confirming instrument performance and analytical results. The inability to achieve calibration is an indication that the equipment needs maintenance. It is not acceptable for an analyst to repeat analysis of calibration or QC standards beyond what is allowed by the SOP until "acceptable" results are achieved.
- 6.4.3 If equipment outside the permanent control of the laboratory is used, it must meet the same criteria. The laboratory shall ensure that the function and calibration status of the equipment is checked and shown to be satisfactory before it is put into service. The equipment must meet all requirements of LADEQ regulations/NELAC standards.

6.5 Equipment Maintenance

Maintenance is defined as cleaning and/or replacing equipment components to assure that the equipment has been properly and periodically serviced and is in satisfactory condition. The equipment manual is a good guideline to determine preventive and routine maintenance schedules. These manuals also assist in identification of commonly needed replacement parts so that an inventory of these parts can be properly maintained.

6.5.1 A maintenance log is issued for each piece of equipment. It shall be maintained by the analyst to describe problems, the maintenance performed on the instrument and outcome. This includes routine service checks by laboratory personnel (unless described in the SOP) as well as factory service calls. This log also provides a written source for future use in preventive maintenance. The logs are periodically reviewed by QA.

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- 6.5.2 In order to prevent system down time, minimize corrective maintenance cost and to help insure data validity, GCAL uses a system of preventive maintenance. All routine maintenance is performed as recommended by the manufacturer. Maintenance contracts are purchased for most instruments. This insures periodic preventive maintenance visits by factory authorized service representatives and immediate service for corrective actions if required.
- 6.5.3 When a piece of equipment is deemed defective, it is taken out of service and identified with an "OUT OF SERVICE" label. For support equipment such as balances, ovens, coolers, and pipettes, the QA/QC Department is notified so that proper servicing and repair can be scheduled. The analysts perform routine and preventive maintenance for major instrumentation. If outside service is necessary, the Department Supervisor schedules it, with approval from the Laboratory Manager. Satisfactory instrument performance must be verified prior to returning to service any repaired equipment.
- 6.5.4 Table 6-1 is a list of support equipment calibration frequencies. In addition to the stated frequencies, calibrations are performed prior to first use and upon evidence of deterioration. Class "A" glassware is only verified upon evidence of deterioration. Calibration acceptance is based on 10 replicate measurements. See SOP GEN-010 for more details.

Table 6-1 Equipment Calibration

Equipment	Calibration*	Frequency	
Analytical Instrument	Traceable standard	Each day of use or as required by instrument manual	
Oven and Refrigerator	Calibrated thermometer	Each day of use	
Thermometers	NIST Thermometer	Annually (Mercury), Quarterly (Digital)	
NIST Thermometer	Certified off-site	As required by certificate	
Balance	Certified weights	Each day of use, certified semi- annually	
Weights	Certified off-site	As required by certificate	
Adjustable pipettes	Weight	Each day of use	
Non standard lab ware	Weight	By lot	
Non-class A volumetric	Weight	Quarterly	
Agitators (TCLP, SPLP)	Stop watch	Monthly	

^{*} Acceptance criteria are included in logbook used to document check, or in certificate.

6.6 Reagents

- 6.6.1 All solvents used for preparation of standards must be of acceptable purity to not interfere or invalidate the test. Purity of reagents must meet the reference method requirements and must not invalidate the test as shown by the acceptability of method blanks.
- 6.6.2 Reagents must be stored as specified by the manufacturer, and must be disposed of after the expiration date. If no expiration date is supplied, label acids and bases for five years from receipt, and other reagents as one year from receipt.

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- 6.6.3 Neat chemicals must be stored as specified by the manufacturer, and must be disposed of after the expiration date. If no expiration date is supplied, label the neat chemicals for 10 years from receipt.
- 6.6.4 All reagents must be in labeled bottles with the date of receipt and date opened marked in permanent marker.
- 6.6.5 Reagent water is available throughout the lab. GCAL uses de-ionized water supplied by US Filter. The water conductivity is monitored daily and is serviced when necessary.

6.7 Standards

Preparation of standards for calibration or QC must be made from materials of known purity, (98% or better preferred) or from purchased concentrates certified by NIST, EPA, or other acceptable agencies.

- 6.7.1 Stock standards can be kept up to one year if the manufacturer indicates no expiration date. Upon preparation of the standard, the following items must be recorded on the bottle containing the standard: laboratory assigned ID, standard name, concentration, initials of the analyst preparing the standard, date prepared, and expiration date. All other information regarding the standard including solvent used, lot number(s) of solvent used, the analyte source, purity and lot number, expiration date, concentration, dilution procedure, analyst's initials, and date prepared must be entered in the log book.
- 6.7.2 Preparation of intermediate standard solutions is necessary for many tests. These working standards include calibration standards, spiking solutions, surrogate solutions, internal standard solutions, etc., and must be stored as suggested by the manufacturer when not in use. Working standards for the analysis of volatile organic constituents must be prepared at least once in two weeks or more often if required by the method or if performance is compromised. Working standards for the analysis of semi-volatile organic constituents and pesticides are prepared as needed or every six months. Working standards for trace metal analysis is prepared at least once a month for concentrations of 1 mg/L and less. Calibration standards for mercury are digested as needed and calibration standards for graphite furnace are prepared daily. Working standards expiration cannot be longer than the expiration of the parent standard or reagents used. Standard expiration is extended by approval of the QA Director. Acceptable performance must be demonstrated and documentation kept on file. Prepared working standards are verified by comparison to response from the previous calibration as described in SOP GEN-006.
- 6.7.3 The identification of each standard prepared must be unique and all documents related to sample analysis in which the standard was used must contain this unique identification. The documentation shall be such that all of the standard information could be traced from the raw data for the sample.
- 6.7.4 Freezers and refrigerators are designated for storage of standards. Samples are not stored with standards. Refrigerators or freezers used for storage of standards or samples are

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monitored for temperature compliance seven days a week. Refrigerators are maintained at $<6^{\circ}$ C and $>0^{\circ}$ C. Freezers are maintained between -10°C and -20°C.

			GC/	AL Equipment L	ıst	
ORGANICS	Location	Date Received	Date in Service	Condition	MAKE/MODEL	SERIAL NUMBER
GCMSSV 4	MSSV Lab	September-05	September-08	new	AGILENT 5975	US52430653
	MSSV Lab	September-05	September-08	new	AGILENT 6890N	CN10532052
GCMSSV 5	MSSV Lab	November-05	November-05	new	AGILENT 5975	US53931245
	MSSV Lab	November-05	November-05	new	AGILENT 6890N	CN10539069
GCMSSV 6	MSSV Lab	July-07	July-07	new	Agilent 7890	CN10717068
	MSSV Lab	July-07	July-07	new	Agilent 5975C	US71235850
GCMSV 0	MSV lab	September-01	September-01	new	HP 5890 SERIES II	3336A58851
	MSV lab	September-01	September-01	new	HP 5972	3501A02325
	MSV lab	September-01	September-01	new	Teledyne/Tekmar-XPT	US05279001
	MSV lab	September-01	September-01	new	T/D Solatek 72	USO2294002 (GCAL# 0337)
GCMSV5	MSV lab	October-03	October-03	new	HP 5890 SERIES II	3310A48460
	MSV lab	October-03	October-03	new	HP 5971	3307A00395
	MSV lab	October-03	October-03	new	Tekmar LCS 2000	90211015/93154002/9115009
GCMSV 8	MSV Lab	October-01	October-01	new	AGILENT 5973	US10441235
	MSV Lab	October-01	October-01	new	AGILENT 6890N	US10134037
	MSV Lab	October-01	October-01	new	Teledyne/Tekmar-XPT	US03240004
	MSV Lab	October-01	October-01	new	T/D Solatek 72	US05283001
GCMSV 9	MSV lab	April-07	April-07	new	AGILENT 5979B	US63234781
	MSV lab	April-07	April-07	new	AGILENT 6890N	CN10647134
	MSV lab	April-07	April-07	new	Teledyne/Tekmar-XPT	US06296004
	MSV lab	April-07	April-07	new	T/D Solatek 72	US07022004
GCMSV II	MSV Lab	April-04	April-08	new	AGILENT 5973	US33220204
· · · · · · · · · · · · · · · · · · ·	MSV Lab	April-04	April-08	new	AGILENT 6890N	CN10407013
	MSV Lab	July-07	July-07	new	Teledyne/Tekmar-XPT	US03140007
	MSV Lab	July-07	July-07	new	T/D Solatek 72	US02098018
GCMSV 12	MSV Lab	June-10	June-10	new	AGILENT 5973	US10441235
	MSV Lab	June-10	June-10	new	AGILENT 7890A	CN10211053
	MSV Lab	June-10	June-10	new	Teledyne/Tekmar-XPT	US10160001
	MSV Lab	June-10	June-10	new	T/D Solatek 72	US05283001
FUME HOOD	MSV Lab	January-97	January-97	new	LABCONCO (#20) GCMSV	N/A
FUME HOOD	MSSV Lab	January-97	January-97	new	LABCONCO (#19)	N/A
COOLER	MSV lab	January-97	January-97	new	TRUE (#22)	1330620
COOLER	MSV lab	January-97	January-97	new	TRUE/GDM-45 (#30)	1-3681854
REFRIG/FREEZER	MSV lab	January-97	January-97	new	KENMORE/2538684012	0983108619
REFRIG/FREEZER	MSV lab	January-97	January-97	new	SEARS (VOA 2)	983108619
FREEZER#12	MSV lab	January-97	January-97		FRIGIDAIRE, MODEL #MFU17F3GW6 (#12)	WB02927861
REFRIGERATOR (#41)	MSV lab	February-11	February-11	new	FRIDGIDAIRE (#41)	BU1210823890132
	MSV lab	January-97	January-97	new	METTLER AE200	L65273
BALANCE GCSV 12	GCSV Lab	November-03	November-03	new	AGILENT TECH 6980N	US10338067
GCSV 14	GCSV Lab				AGILENT TECH 6980N	US10338007 US10342128
	GCSV Lab	January-04	January-04 April-04	new	AGILENT TECH 6980N	CN10413018
GCSV 15		April-04		new	AGILENT TECH 6980N	CN104/30/8 CN10525006
GCSV 16	GCSV Lab	August-05	August-05	new		
GCSV 17	GCSV Lab	September-05	September-05	new	AGILENT TECH 6980N	CN10529074

GCSV 18	GCSV Lab	September-05	September-05	mew	AGILENT TECH 6980N	CN10528084
GCSV 19	GCSV Lab	Scptember-05	September-05	wow	AGILENT TECH 6980N	CN10534099
GCSV 20	GCSV Lab	October-05	October-05	mau	AGILENT TECH 6980N	CN10534109
GCSV 21	GCSV Lab	December-05	Dccember-05	мәи	AGILENT TECH 6980N	CN10538039
FUME HOOD	GCSV Lab	January-97	January-97	new	LABCONCO(#33)	301116
GCV 5	GCV Lab	February-08	February-08	wəu	AGILENT 6890 SERIES	US00026701
GCV 6	GCV Lab	November-05	November-05	wau	AGILENT 6890N SERIES	CN10538061
GCV 7	GCV Lab	April-07	April-07	маи	AGILENT 6890N SERIES	CN10545063
GCV 8	GCV Lab	April-08	April-08	new	AGILENT 6890N SERIES	CN10636089
GCV9	GCV Lab	March-05	Junc-10	new	AGILENT 6890N	CN10452003
PURGE/TRAP INSTRUMENT 5	GCV Lab	February-08	February-08	new	TELEDYNE TEKMAR / 14-8900-00T	US05257002
PURGE/TRAP INSTRUMENT 6	GCV Lab	November-05	November-05	леж	TEKMAR	BETA 005
PURGE/TRAP INSTRUMENT 7	GCV Lab	April-07	April-07	new	TELEDYNE TEKMAR XPT / 14-890000T	US0527002
PURGE/TRAP INSTRUMENT 9	GCV Lab	March-05	Junc-10	new	TELEDYNE TEKMAR XPT	US0507010
AUTOSAMPLER INSTRUMENT 5	GCV Lab	February-08	February-08	ясм	TELEDYNE TEKMAR SOLATEK 72	US02277005
AUTOSAMPLER INSTRUMENT 6	GCV Lab	November-05	November-05	new	TELEDYNE TEKMAR AQUATek 70	US05355004
AUTOSAMPLER INSTRUMENT 7	GCV Lab	April-07	April-07	new	TELEDYNE TEKMAR AQUATek 70	US05347003
AUTOSAMPLER INSTRUMENT 9	GCV Lab	March-05	June-10	new	TELEDYNE TEKMAR SOLATEK 72	US0324004
Digital Vortex Meter	GCV Lab	November-08	November-08	new	N/A	080801081
BALANCE	GCSV Lab	January-97	January-97	new	SARTORIUS AC211P	50305162
REFRIGERATOR (#43)	GCV Lab	March-II	March-11	new	Frigidaire (#43)	KA03300793
REFRIGERATOR	GCSV Lab	January-97	January-97	ncw	MASTERBILT (#18)	254034
FREEZER	GCSV Lab	January-97	January-97	new	Frigidaire (#34)	WB44328710
REFRIG/FREEZER	GCSV Lab	January-97	January-97	new	SEARS (#11)	BA01000875
REFRIG/FREEZER	GCSV Lab	January-97	January-97	new	KENMORE (#14)	BA04391055
REFRIG/FREEZER	GCSV Lab	January-97	January-97	new	KENMORE (#15)	BA04391057
REFRIG/FREEZER	GCSV Lab	January-97	January-97	new	KENMORE (#17)	BA03100524
FREEZER	GCSV Lab	January-97	January-97	ncw	Whirlpool (#37)	EWW3489616
FREEZER	GCSV Lab	January-97	January-97	new	Frigidaire (#26)	WB83724994
HPLC	Location	Date Received	Date in Service	Condition	MAKE/MODEL	SERIAL NUMBER
COLUMN HEATER	MSSV Lab	December-06	December-06	new	EPPENDORF TC-45	WA
HPLC-2	MSSV Lab	December-06	December-06	псж	AGILENT 1200 SERIES - MWD	DE60555127
	MSSV Lab	December-06	December-06	пем	AGILENT 1200 SERIES - FLD	DE60555722
	MSSV Lab	December-06	December-06	пеш	AGILENT 1200 SERIES - TCC	DE63060177
	MSSV Lab	December-06	December-06	псм	AGILENT 1200 SERIES - QUANT PUMP	DE60556714
	MSSV Lab	December-06	December-06	new	AGILENT 1200 SERIES - ALS	DE60557762
	MSSV Lab	December-06	December-06	new	AGILENT 1200 SERIES - DEGASSER	JP62354304
METALS	Location	Date Received	Date in Service	Condition	MAKE/MODEL	SERIAL NUMBER
ICP/MS	Metals Lab	September-10		new	Agilent 7700/7500 Series	JP10280491
ICP/MS Autosampler	Metals Lab	September-10		ncw	Agilent ASX-500	US071080A520
ICP	Metals Lab	September-05	September-05	new	PERKIN-ELMER OPTIMA 4300DV	077N0050202
AUTOSAMPLER	Metals Lab	September-05	September-05	пем	PERKIN-ELMER AS93 Plus	N/A
ICP	Metals Lab	May-00	May-00	new.	PERKIN-ELMER 5300DV	077N5090602
GFAA 2	Mctals Lab	January-09	January-09	posn	PERKIN-ELMER 800	8411

CTA A A		,				
OFFA Autosampter	Metals Lab	January-09	January-09	nseq	KIN-ELMER AS800	1852
Graa Chiller	Metals Lab	January-09	January-09	nseq	N/A	N/A
HG ANALYZER	Metals Lab	January-97	January-97	new	PERKIN ELMER/FIMS 400	4515
CHILLER	Metals Lab	January-97	January-97	new	Polyscience	G51284
FUME HOOD-FLOW SCIENCES	Metals Lab	January-97	January-97	new	FS3100BKFVA	11-j-07-04
FUME HOOD	Metals Lab	January-97	January-97	ncw	FS3100BKFVA	11-j-07-15
METALSPREP	Location	Date Received	Date in Service	Condition	MAKE/MODEL	SERIAL NUMBER
MICROWAVE	Metals Prep Lab	January-97	January-97	new	CEM MARS5	DS-6208
DIGESTION BLOCKS (4)	Metals Prep Lab	January-97	January-97	new	CPI MOD BLOCK	N/A
FUME HOOD -FLOW SCIENCES (2)	Metals Prep Lab	Јапцагу-97	January-97	ncw	FS3100BKDVA / FS3100BKGVA	05-N-03-02 / 08-M-13-02
BALANCE	Metals Prep Lab	July-07	July-07	new	Mettler Toledo XS 104	1128260845
EXTRACTIONS	Location	Date Received	Date in Service	Condition	MAKE/MODEL	SERIAL NUMBER
FUME HOODS (18)	EXT Area	January-97	January-97	new	NA	N/A
GLASS WASHER	EXT Area	January-97	January-97	new	AMSCO 400	36911195001
SHAKER (4)	EXT Area	January~97	January-97	ncw	GLAS-COI, 099A	N/A
MILLIPORE(2)	EXT Arca	January-97	January-97	ncw	NA	V/N
VACUUM PUMP	EXT Arca	May-08	May-08	ncw	Edwards	76434563
GPC (1)	EXT Area	January-97	January-97	ncw	ABC AP-100	9161SI/AS007-9114-9114
CENTRIFUGE	EXT Area	January-97	January-97	new	IEC HN-SII	V/N
OVEN	EXT Area	January-97	January-97	new	FISHER ISOTEMP 655G	11000184
TCLP/ZHE ROTATOR	EXT Area	January-97	January-97	исм	ASSOCIATED DESIGN	NA 05101808
ZHE EXTRACTORS	EXT Area	January-97	January-97	ncw	ENVIRONMENTAL EXPRESS	NA 05081684
SONICATOR (6)	EXT Area	January-97	January-97	new	FISHER SCIENTIFIC	RIFWOSZI-HURBWING 101 KHRYBBWINS 101 KAPABIRWING 101 NSO
INCUBATOR SHAKER	EXT Area	January-97	January~97	пем	NEW BRUNSWICK SCIENTIFIC/CLASSIC SE 100524881	100524881
BALANCE	EXT Area	January-97	January-97	псм	METTLER PM 3000	M33557
BALANCE	EXT Arca	January-97	January-97	пем	METTLER PG 3001 S	1117331005
BALANCE	EXT Area	January-97	January-97	new	AND FX-300	5015502
BALANCE	EXT Area	January-97	January-97	wau	OHAUS SCOUT PRO SP2001	7124330243
BALANCE	EXT Area	January~97	January-97	new	OHAUS SCOUT PRO SP402	7124280031
BALANCE	EXT Arca	January-97	January-97	new	OHAUS SCOUT PRO SPE4001	7123450167
BALANCE	EXT Arca	January-97	January-97	new	OHAUS SCOUT PRO SP2001	7124371673
PH METER	EXT Area	January-97	January-97	new	ORION SA520	QT20A
PH METER	EXT Area	January-97	January-97	new	THERMO ORION 720A	074216
PH METER	EXT Area	January-97	January-97	new	ORION 720A+	085153
РН МЕТЕК	EXT Area	January-97	January-97	new	ORION 720A+	089622
PH PROBE 01/ATC PROBE	EXT Area	January-97	January-97	ncw	ORION SURE-FLOW ROSS 8172BNWP	LYI-16730
PH PROBE 03/ATC PROBE	EXT Area	January-97	January-97	пем	ORION SURE-FLOW ROSS 8172BNWP	MX3-10451
PH ELECTRODE (03)	EXT Area	January-97		new	ORION SURE FLOW	MP3-10011
COOLER	EXT Area	January-97	January-97	ncw	TRUE (#5)	1334961
REFRIG/FREEZER	EXT Area	January-97	January-97	new		LA10903763
REFRIGÆRBEZER	EXT Area	January-97	January-97	ncw	WHITE WES'FINGHOUSE (#9)	BA04391056
REFRIG/FREEZER	EXT Arca	January-97	January-97	new	Frigadaire (R#34)	BA61019273
FREEZER	EXT Area	January-97	January-97	new	(#23)	WB40802629
ULTRASONIC CLEANER	EXT Area	January-97	January-97	new	FISHER SCIENTIFIC/FS30	RTB040265340

			GC/	AL Equipment L	ist	
MUFFLE FURNACE	EXT Area	January-97	January-97	new	FISHER SCIENTIFIC/ISOTEMP 550 SERIES M	410N0074
STANDARD TEST SIEVE	EXT Area	January-97	January-97	new	WS TYLER/MODEL #RX-812	24372
PYROMETER	EXT Area	January-09	January-09	new	PM20700	SN 8502832
SAMPLE CONCENTRATOR	EXT Area	January-05	January-05	new	OA-SYS	SN 20018
SAMPLE CONCENTRATOR	EXT Area	January-05	January-05	new	OA-SYS	SN 20019
WET CHEMISTRY	Location	Date Received	Date in Service	Condition	MAKE/MODEL	SERIAL NUMBER
TOX	Wet Chemistry	January-97	January-97	new	MITSUBISHI TOX-10E	N/A
TOC (1)	Wet Chemistry	June-08	June-08	new	Shimadzu TOC-V CSH	H51104535288CS
	Wet Chemistry	January-97	January-97	new	Shimadzu Solid Module	H52504500370
	Wet Chemistry	January-97	January-97	new	Shimadzu Autosampler	H52104502483
AUTOANALYZER	Wet Chemistry	June-08	June-08	new	LACHET QUICK CHEM AE	200-474
IC	Wet Chemistry	October-00	October-00	new	DIONEX LC20/ED40/AD20/AS40	900915
COD REACTOR #4	Wet Chemistry	January-97	January-97	new	HACH COD REACTOR	910404575/920800007697
COD REACTOR #5	Wet Chemistry	January-11	January-11	new	Lovibond CSB/Reactor ET125	0310/4260
TURBIDIMETER	Wet Chemistry	January-97	January-97	new	HACH 2100P	960700011424
SPECTROPHOTOMETER	Wet Chemistry	January-97	January-97	new	HACH #3 DR 2800	1209697
SPECTROPHOTOMETER	Wet Chemistry	January-97	January-97	new	HACH #4 DR 2800	11996-79
TITRATOR	Wet Chemistry			 		S119484414
VISCOMETER		January-97	January-97	new	METTLER TOLEDO DL53	
WATER BATH	Wet Chemistry	January-97	January-97	new	BROOKFIELD DVII	32587
	Wet Chemistry	January-97	January-97	new	BROOKFIELD TC-200	GCAL# 0311
CLOSED CUP FLASH PT	Wet Chemistry	January-97	January-97	new	PRECISION SCIENTIFIC	10BR-12
FLASHPOINT (FP3)	Wet Chemistry	December-08	December-08	new	Herzog HFP 339	083390442
AMMONIA PROBE	Wet Chemistry	January-97	January-97	new	ORION 95-12	N/A
OXYGEN BOMB CAL	Wet Chemistry	January-97	January-97	new	PARR	6616
CONDUCTIVITY METER 2	Wet Chemistry	January-11	14/11	new	OAKTON pH/CON 510 SERIES	528330
COLIFORM BATH I	Wet Chemistry	January-92	January-92	new	PRECISION SCIENTIFIC INCUBATOR	10AZ-1
COLIFORM BATH 2	Wet Chemistry	May-08	May-08	new	THERMOSCIENTIFIC INCUBATOR	204785
COLIFORM BATH 3	Wet Chemistry	May-09	May-09	new	THERMOSCIENTIFIC INCUBATOR	207063
PH METER	Wet Chemistry	January-97	Јапиагу-97	new	ORION 720A+	092891
PH PROBE 04/ATC PROBE	Wet Chemistry	January-97	January-97	new	ORION SURE-FLOW ROSS 8102BNUWP	LUI-18038
PH METER	Wet Chemistry	January-97	January-97	new	ORION 420A	7881
PH PROBE	Wet Chemistry	January-97	January-97	new	ORION TRIODE	N/A
PH PROBE/ATC PROBE	Wet Chemistry	January-97	January-97	new	ORION COMB 915600/917006	N/A
PH METER (PH-05)	Wet Chemistry	October-08	October-08	new	ORION 2STAR	B11765
PH PROBE	Wet Chemistry	January-97	January-97	new	ORION 9107APMD	RMR21
PH Meter (PH-07)	Wet Chemistry	September-10	September-10	new	Thermo Scientific/Dual Star	E03025
AUTOCLAVE	Wet Chemistry	September-10	September-10	new	Tuttnaucr	10003285
DO METER	Wet Chemistry	January-97	January-97	new	YSI MODEL 59/5905 PROBE	93A01946
DO METER	Wet Chemistry	March-10	March-10	new	YSI MODEL 5100	10A 101264
OVENS (2)	Wet Chemistry	January-97	Јапиагу-97	new	BLUE M SW17TA-1	SW-5478/SW-5408
OVEN	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC 3510-ISF	1879070606147
OVEN	Wet Chemistry	January-97	January-97	new	GRIEVE PL-326	444341
OVEN	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC ISOTEMP/MODEL 516G	506NO196
OVEN	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC ISOTEMP/MODEL 650G	508N0138

		OC.	to Equipment Ex) L	
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC ISOTEMP/MODEL 650G	508N0137
EXT area	January-97	January-97	new	THERMOLYNE 1500	N/A
Wet Chemistry	January-97	January-97	new	DRY KEEPER	N/A
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC(#3)	WB93928030
Wet Chemistry	January-97	January-97	new	METTLER AE160	C05693
Wet Chemistry	January-97	January-97	new	METTLER AX504	1122043050
Wet Chemistry	January-97	Јапнату-97	new	SARTORIUS / PT6-000V2	60802675
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC / ACCU-224	F224075004
Wet Chemistry	January-97	January-97	new	N/A	N/A
Wet Chemistry	January-97	January-97	new	REVCO	T28C-142152-TC
Wet Chemistry	January-97	January-97	new	PRECISION SCIENTIFIC	10AZ-12
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	407N0211
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	WB93928030
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	WB53337398
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	2018080398339
Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	2018080607337
Wet Chemistry	January-97	January-97	new	SEARS (#19)	LA91905856
Wet Chemistry	January-97	January-97	new	WHITE WESTINGHOUSE (#1)	WB10507478
EXT Area	May-08	May-08	new	Edwards	7643558
Wet Chemistry	January-97	January-97	new	THE STRAUB CO./MODEL 4E	N/A
Location	Date Received	Date in Service	Condition	MAKE/MODEL	SERIAL NUMBER
LOGIN Area	January-97	January-97	new	FUME HOOD #9	N/A
LOGIN Area	January-97	January-97	new	TRUE (#2)	708391
LOGIN Area	January-97	January-97	new	TRUE (#3)/GDM-72	1-3792963
LOGIN Area	January-97	January-97	new	N/A	N/A
LOGIN Area	January-97	January-97	new	KENMORE (#4)	BA01902878
LOGIN Area	May-08	May-08	new	FISHER SCIENTIFIC	72704761
LOGIN Area	January-97	January-97	new	FRIDGIDAIRE (#33)	BA454622395
LOGIN Area	January-97	January-97	new	FRIGIDAIRE(#27) MFU17F3GW6	WB03102969
LOGIN Area	January-97	January-97	new	HEWLETT PACKARD SCANJET 5470C/C9850	CN1B41HOTZ
LOGIN Area	January-97	January-97	new	FRIGIDAIRE (#28) FFU20FC4CWO	WB34937210
					WB40427812
	EXT area Wet Chemistry Understry Wet Chemistry Wet Chemist	EXT area January-97 Wet Chemistry January-97 Location January-97 Location Date Received LOGIN Area January-97	Wet Chemistry January-97 January-97 EXT area January-97 January-97 Wet Chemistry January-97 January-97 EXT Area May-08 May-08 Wet Chemistry January-97 January-97 Login Area January-97 January-97 LOGIN Area Ja	Wet Chemistry January-97 January-97 new EXT area January-97 January-97 new Wet Chemistry January-97 January-97 new	EXT area January-97 January-97 new THERMOLYNE 1500 Wet Chemistry January-97 January-97 new DRY KEEPER Wet Chemistry January-97 January-97 new FISHER SCIENTIFIC(#3) Wet Chemistry January-97 January-97 new METTLER AE160 Wet Chemistry January-97 January-97 new METTLER AE304 Wet Chemistry January-97 January-97 new SARTORIUS / PT6-000V2 Wet Chemistry January-97 January-97 new FISHER SCIENTIFIC / ACCU-224 Wet Chemistry January-97 January-97 new REVCO Wet Chemistry January-97 January-97 new PRECISION SCIENTIFIC Wet Chemistry January-97 January-97 new FISHER SCIENTIFIC Wet Chemistry January-97 new FISHER SCIENTIFIC Wet Chemistry January-97 new FISHER SCIENTIFIC Wet Chemistry January-97 new FISHER SCIENTIFIC Wet Chemistry



South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account

Facility Name:	Windsor Mart			_	
UST Permit #:	02314	Cost Agre	ement #:	Proposal	
ITEM		QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan*					
B. Tax Map			х	\$50.00	\$0.00
	np. Plan /QAPP Appendix B	1	Х	\$525.00	\$525.00
2. Receptor Surve			Х	\$500.00	\$0.00
3. Survey (500 x 5	· ·				
A. Comprehens	·		X	\$1,000.00	\$0.00
	Geophysical Survey				
1. < 10 meters	_		Х	\$2,750.00	\$0.00
2. > 10 meters	-		Х	\$3,250.00	\$0.00
	UST or Drum Survey		X	\$1,125.00	\$0.00
4. Mob/Demob (Ea	acn)				
A. Equipment			X	\$575.00	\$0.00
B. Personnel		1	X	\$290.00	\$290.00
	rain Vehicle to install wells		X	\$575.00	\$0.00
	and auger)* (Feet)		feet x	\$14.00	\$0.00
• .	rilled) & Field Screening *			l	
	ollection of water sample or soil sam	ipie, and lab or o	1	1 047.00	40.00
A. Standard	-1		feet x	\$17.00	\$0.00
C. Fractured Ro 7. Soil Leachabilit		,	feet x	\$27.50	\$0.00
8. Abandonment*	<u> </u>		each x	\$200.00	\$0.00
A. 2" diameter	•		foot	\$5.00	00.00
	2" to 6" diameter		feet x	\$5.00	\$0.00
			feet x	\$5.50 \$18.00	\$0.00 \$0.00
9. Well Installation	vell (up to 6 foot diameter)		feet x	\$10.00	φυ.υυ
1	(hand augered)		feet x	\$20.00	\$0.00
B. Water Table	· · ·		feet x	\$38.00	\$0.00
C. Telescoping/	, -,		feet x	\$58.00	\$0.00
D. Rock Drilling			feet x	\$58.00	\$0.00
E. 2" Rock Cori			feet x	\$45.00	\$0.00
	ampling ports/screens		feet x	\$47.20	\$0.00
1	ell (4 inch diameter)		each x	\$45.00	\$0.00
1	packed screen (1.25 diameter)		each x	\$18.50	\$0.00
J. Rotosonic (2	, , ,		each x	\$45.00	\$0.00
	Sample Collection / Gauge Depth	to Water or Pro		770.00	
A. Groundwater	•	4	wells x	\$55.00	\$220.00
B. Air or Vapors	•		samples x	\$90.00	\$0.00
C. Water Suppl			samples x	\$30.00	\$0.00
	r No Purge, SW (2), or Dup (1)	3	samples x	\$35.00	\$105.00
E. Gauge Well	. ,,		per well x	\$20.00	\$0.00
F. Sample Belo	•		wells x	\$50.00	\$0.00
G. Pasive Diffus			each x	\$40.00	\$0.00
H. Field Blank	·-··	1	each x	\$5.00	\$5.00
L		L	, , , , , , , , , , , , , , , , , , ,	40.00	40.00

11. Laboratory Analyses-Groundwater (Each Sampl	e)		CONTRACTOR OF THE CONTRACTOR O	
A1. BTEXNM+ Oxyg's+ 1,2 DCA + Ethanol	9	samples x	\$100.00	\$900.00
AA. Lead, Filtered		samples x	\$46.00	\$0.00
B1. Rush EPA Method 8260B (All of item A.)		samples x	\$143.00	\$0.00
C1. Trimethal, Butyl, and Isopropyl Benzenes		samples x	\$40.00	\$0.00
D. PAH's		samples x	\$120.00	\$0.00
E. Lead, Unfiltered	7	samples x	\$20.00	\$140.00
F. EDB by EPA 8011	8	samples x	\$55.00	\$440.00
FF. EDB by EPA Method 8011 Rush		samples x	\$75.00	\$0.00
G. 8 RCRA Metals		samples x	\$140.00	\$0.00
H. TPH (9070)		samples x	\$55.00	\$0.00
I. pH		samples x	\$10.00	\$0.00
J. BOD		samples x	\$40.00	\$0.00
P1. Ethanol		samples x	\$21.50	\$0.00
11. Analyses-Soil (Each Sample)				
Q. BTEX + Naphth.		samples x	\$100.00	\$0.00
R. PAH's		samples x	\$120.00	\$0.00
S. 8 RCRA Metals		samples x	\$150.00	\$0.00
T. Oil & Grease (9071)		samples x	\$60.00	\$0.00
U. TPH-DRO (3550B/8015B)		samples x	\$65.00	\$0.00
V. TPH- GRO (5030B/8015B)		samples x	\$65.00	\$0.00
W. Grain size/hydrometer	i	samples x	\$99.00	\$0.00
X. Total Organic Carbon		samples x	\$35.00	\$0.00
11. Analyses-Air (Each Sample)				
Y. BTEX + Naphthalene		samples x	\$247.50	\$0.00
11. Analyses-Free Phase Product (Each Sample)			, =	
Z. Hydrocarbon Fuel Identification		samples x	\$620.00	\$0.00
12. Aquifer Characterization*			7.2	
A. Pumping Test		hours x	\$120.00	\$0.00
B. Slug Test*		tests x	\$150.00	\$0.00
C. Fractured Rock		tests x	\$500.00	\$0.00
13. Free Product Recovery Rate Test* (Each)	 	tests x	\$120.00	\$0.00
14. Fate/Transport Modeling		1000 //	7.20,00	
A. Mathematical Model		each x	\$300.00	\$0.00
B. Computer Model		each x	\$500.00	\$0.00
15. Risk Evaluation			,	
A. Tier I Risk Evaluation		x	\$300.00	\$0.00
B. Tier II Risk Evaluation		x	\$500.00	\$0.00
16. Subsequent Survey*		х	\$300.00	\$0.00
17. Disposal* (gallons or tons)				anni ac via
A. Wastewater	40	gallons x	\$0.80	\$32.00
B1. Free Product		gallons x	\$0.85	\$0.00
C. Soil Treatment/Disposal		tons x	\$72.50	\$0.00
D. Drilling fluids		gallons x	\$0.80	\$0.00
18. Miscellaneous (attach receipts)		-		444
		x		\$0.00
		x		\$0.00
		x		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		x		\$0.00
21. IGWA (Use DHEC 3666 form)		х		\$0.00
22. Corrective Action (Use DHEC 3667 form)		х		\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A. 8-hour Event*		each x	\$3,000.00	\$0.00
B. AFVR per-hour Continuance		perhour x	\$204.00	\$0.00
C. Off-gas treatment per-hour Continuance		per hour x	\$35.00	\$0.00
24. Granulated Activated Carbon (GAC) filter system				
A. New GAC System Installation*		each x	\$2,500.00	\$0.00
B1. Refurbished GAC Sys. Install*		each x	\$1,180.00	\$0.00
C. Filter replacement/removal*		each x	\$450.00	\$0.00
D1. GAC System removal, cleaning, & refurbishmen	t*	each x	\$720.00	\$0.00
E. GAC System housing		each x	\$450.00	\$0.00
F. In-line particulate filter		each x	\$150.00	\$0.00
G. Additional piping & fittings		feet x	\$4.00	\$0.00
25. Well Repair				
A. Additional Copies of the Report Delivered		each x	\$32.50	\$0.00
B. Repair 2x2 MW pad		each x	\$100.00	\$0.00
C. Repair 4x4 MW pad		each x	\$150.00	\$0.00
D. Repair well vault		each x	\$225.00	\$0.00
F. Replace well cover bolts		each x	\$10.00	\$0.00
G. Replace locking well cap & lock		each x	\$15.00	\$0.00
H. Replace/Repair stick-up		each x	\$137.50	\$0.00
Convert Flush-mount to Stick-up		each x	\$175.00	\$0.00
J. Convert Stick-up to Flush-mount		each x	\$125.00	\$0.00
K. Replace missing/illegible well ID plate		each x	\$22.50	\$0.00
Report Prep & Project Management	15%	х	\$2,657.00	\$398.55
TOTAL	\$3,055.55			

^{*}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

MR CHARLES JACKSON JR JACKSON OIL COMPANY INC **PO BOX 968** CHERAW SC 29520-0968

NOV 1 5 2013



Re:

Groundwater Sampling Directive

Windsor Mart, 820 Chesterfield Hwy, Cheraw, SC

UST Permit #02314; CA # 46635 Release reported December 6, 1991

Standard Limited Assessment Report received July 16, 1997

Site Specific QAPP Contractor Addendum received October 29, 2013

Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced file and Site Specific Quality Assurance Program Plan (QAPP) Contractor Addendum submitted by Terry Environmental Services, Incorporated. The Standard Limited Assessment Report indicated that petroleum Chemicals of Concern (CoCs) are present in the groundwater at concentrations that exceed Risk Based Screening Levels (RBSLs).

In accordance with Section 280.65 of the South Carolina Underground Storage Tank Regulations, assessment activities must be conducted as CoCs are above the risk-based-screening levels in the groundwater. Therefore, implementation of groundwater sampling will be necessary to characterize any possible risk to human health or the environment. The groundwater sampling event must be conducted in accordance with the UST QAPP Revision 2.0, all applicable regulations, and the submitted site specific QAPP Contractor Addendum. A copy of the UST QAPP Revision 2.0 is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

A sample should be collected from all water supply wells and surface water bodies within 1,000 feet of the referenced facility. The sample should be analyzed for BTEX, naphthalene, 8 oxygenates, 1,2-DCA, MTBE, and EDB. All monitoring wells should be purged before a groundwater sample is collected. The groundwater samples from the monitoring wells should be analyzed for BTEX, naphthalene, 8 oxygenates, 1,2-DCA, MTBE, unfiltered lead, and EDB, and analyzed in accordance with the UST QAPP, Appendix E, including duplicate samples, field blanks, and trip blanks.

The monitoring report and invoice are due within sixty (60) days from the date of this letter. Please have your contractor submit the sampling results to the Division in a monitoring report containing the following:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data (pH, specific conductance, dissolved oxygen, water temperature, and turbidity measurements.)
- Groundwater elevations, top of casing elevation, depth to groundwater, measurable free product
 thickness (where applicable), total well depth and screened interval for all monitoring wells
 associated with the site, unless otherwise directed by the Division, shall be presented in tabular
 form. Groundwater laboratory analytical data for this and all previous sampling events for all
 monitoring wells shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.
- According to R.61-98 Section IV.C.1 all plans, reports, invoices, and other documents relating to site rehabilitation activities which have been prepared or approved by a certified contractor shall be signed by the certified contractor and bear his certification number.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for preapproved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available. The Division, because of unnecessary dilution, cannot make decisions if the reporting limit of individual petroleum CoC exceeds Risk-Based Screening Levels (RBSLs). The Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release. The Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The Division cannot make closure decisions based on elevated reporting limits and the SUPERB Account will not reimburse for erroneously elevated detection limits.

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

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. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not

reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #02314. If you have questions or need additional information, feel free to call me at (803) 898-7542.

Sincerely,

Minda Hornosky, Hydrogeologist

Assessment Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved Cost Agreement

Signed Site Specific QAPP Contractor Addendum

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc.)

Technical File (w/enc.)

Quality Assurance Project Plan Addendum to the SC DHEC UST Programmatic QAPP, Revision 2.0

For

Windsor Mart, UST Permit #02314
820 Chesterfield Highway, Cheraw, South Carolina



Prepared by: Kelly K. Cone, P.G.

e-mail: kcone@terryenvironmental.com

Date: October 24, 2013

Terry Environmental Services, Inc. (UCC #0223)



Approvals	
Minda Hornosky Misself Channes	Date <u>/0/3///3</u>
SC DHEC Project Manager Signature	
Jason A. Terry Contractor QA Officer Signature	Date 10/24/13
Kelly K. Cone March	Date 10/24/13
Site Rehabilitation Contractor Signature	
Ashley Amick	Date_10/24/13
Access Analytical Laboratory Director Signature	
Scott Bailey Date The College of 19 18 18 22	Date_10/24/13
GCAL Laboratory Director Signature	

SCANNED

Approved Cost Agreement 46635

Facility: 02314 WINDSOR MART

HORNOSMS
PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
01 PLAN				
	C TIER II/COMP. PLAN/QAPP APP B	1.0000	525.00	525.00
04 MOB/DEMOB				
	B PERSONNEL	1.0000	290.00	290.00
10 SAMPLE COLLECTION				
	A GROUND WATER	4.0000	55.00	220.00
	D GROUNDWATER NO-PURGE	3.0000	35.00	105.00
	H FIELD BLANK	1.0000	5.00	5.00
11 ANALYSES				
GW GROUNDWATER	A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	9.0000	100.00	900.00
	E LEAD	7.0000	20.00	140.00
	F EDB	8.0000	55.00	440.00
17 DISPOSAL				
	A WASTEWATER	40.0000	0.80	32.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PCT PERCENT	0.1500	2,657.00	398.55

Total Amount 3,055.55

Document Receipt Information

Hard Copy	CD	E	Email
}			
Date Received - 13-	14	·	
Permit Number 3 - 0	02314		•
Project Manager	la		
Name of Contractor TE	S		
UST Certification Number	<u> </u>	0223	
Docket Number 6 +	eh		
Scanned			
Gω	mon	iton no	Report

GROUNDWATER MONITORING REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #46635

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9

Kelly K. Cone, PG

Vice President, Assessment Services

Jason A. Terry, PG

Presiden

JANUARY 2014



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: PO Box 968, Cheraw, South Carolina 29520

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company Inc.

Address: PO Box 968, Cheraw, South Carolina 29520

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Name: Gulf Coast Analytical Laboratories, Inc. (GCAL)

Address: 7979 GSRI Avenue, Baton Rouge, LA 70820

Telephone: 225-769-4900 Certification: 73006001

Name: Access Analytical, Inc. (Access)

Address: 7478 Carlisle St., Irmo, SC 29063

Telephone: 803-781-4243 Certification: 3257500

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Corner Cupboard)



UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20 000 gal)	Multiple Petroleum	Unknown	Yes	_

Other Releases at this site? Yes	No XXXX
If yes, Date Release Reported to SCDHEC	n/a
Status of Release:	n/a
No Further Action Date:	n/a

7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thickbedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work. However, based on the USGS topographic map there are two drainage features located approximately 800 to 1,000 feet to the east and west of the subject site.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; the site is currently operating as a gas station and convenience store (Corner Cupboard).

Description of adjacent land use (commercial, residential, rural, etc):

Commercial and residential

UST sites within a 1,000-foot radius:

Unknown

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Site-specific stratigraphy was not documented during this scope of work. The Site Potentiometric Map (Figure 5, Section J) indicates that groundwater flow is generally to the south-southeast.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.



E. GROUNDWATER DATA

1. Groundwater Sampling Methodology

TERRY sampled the site on December 9, 2013. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Monitoring well MW-2 could not be located and appears to have been paved over. The drainage feature to the east of the subject site, SW-2, was dry and could not be sampled.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. The wells at the site had not been sampled within the past twelve months; therefore, the wells were purged prior to sampling. A clean purge pump with new disposable tubing was utilized for purging the wells with large casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs). The surface water sample was collected from the drainage feature with a new disposable bailer.

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 2.0. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for each day of sampling and analyzed for VOCs and 1,2-Dibromoethane (EDB). One field duplicate was collected and analyzed for VOCs, Lead, and EDB as less than twenty samples were collected during this event.

The analytical data indicated an estimated concentration of t-Butanol (TBA) detected in the trip blank (7.41J ug/L). An inquiry was made to the lab and it was determined that the lot of de-ionized water used for prepping the trip blank was contaminated with low levels of TBA. The lot of water was independently analyzed to verify the contamination was attributed to the de-ionized water. That lot of water has been removed from use and all future lots will undergo a confirmation VOC analysis. The contamination does not appear to have had an impact on the integrity of the samples as all other samples are non-detect for TBA.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 2.0 and the site-specific Addendum. At the completion of each sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Tert-Butyl Methyl Ether, 1,2-Dichloroethane, Oxygenates, Ethanol, Lead, and EDB.



Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 2.0. By-products were disposed of via processing through a granular-activated-carbon (GAC) unit in accordance with the NPDES General Permit No. SCG830000. The field measurement equipment was properly calibrated prior to the sampling event and verified after four (4) hours of use and at the completion of the event. Since sampling was completed within four hours, only one field verification was conducted. The calibration data for the sampling event is provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B.

2. Purging Methodology

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. For monitoring wells with smaller casing volumes and/or slow recharge rates, a new disposable bailer was utilized for purging. When utilized, bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the VOCs. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. In accordance with the SCDHEC UST QAPP, Revision 2.0, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was disposed of via processing through a granular-activated-carbon (GAC) unit in accordance with the NPDES General Permit No. SCG830000. The Certificate of On-Site Treatment for the contaminated purge water and the by-products from cleaning and decontamination is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 2.0. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:

SECTION E -2 GROUNDWATER MEASUREMENTS (PURGE SAMPLING) WINDSOR MART CHERAW, SOUTH CAROLINA SCONEG LIST PERMIT #02314

		SCDH	EC USI PERM	/111 #02314							
02314-MW1	12/9/2013	12/9/2013									
		Free Product (3.34 ft.)									
02314-MW2	12/9/2013	12/9/2013									
		Could Not Find									
02314-MW3	12/9/2013	12/9/2013									
Volume (gal)	Initial	0.75	1.5	2.25/Sample							
Time (military)	1335	1337	1339	1341							
pH (su)	3.69	4.36	4.39	4.38							
Spec Conductivity (mS/cm)	0.278	0.100	0.103	0.105							
Water Temperature (°C)	18.8	20.7	20.7	20.7							
Turbidity (NTU)	50.5	160	148	166							
Dissolved Oxygen (mg/L)	3.61	2.75	2.25	2.66							
02314-MW4	12/9/2013										
				Free Product (1.89 ft.	.)						

NOTES/KEY:

gal = gallons

su = standard unit

mS/cm = milliSiemens per centimeter

NTU = nephelometric turbity units

mg/L = milligrams per liter

3. Free Product Measurements

Free-phase petroleum was measured in MW-1 (3.34 feet) and MW-4 (1.89 feet) on December 9, 2013. Therefore, monitoring wells MW-1 and MW-4 were not sampled.

F. AFVR INFORMATION

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, TERRY conducted a comprehensive groundwater sampling event in accordance with the SCDHEC UST QAPP, Revision 2.0 and the associated site-specific Addendum dated October 24, 2013 and fully executed on October 31, 2013. The wells at the site had not been sampled within the past twelve months; therefore, all wells were purged prior to sampling. Monitoring well MW-2 could not be located and appears to have been paved over. Free-phase petroleum was measured in MW-1 (3.34 feet) and MW-4 (1.89 feet).

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A and 4B. The analytical results indicate the contaminant plume is not fully defined horizontally or vertically. The sample collected from the surface water location (SW-1) did not show evidence of petroleum contamination.

Free-phase petroleum was measured in monitoring wells MW-1 and MW-4. As such, it is recommended to conduct three (3) separate 12-hour AFVR Events on monitoring wells MW-1 and MW-4, concurrently.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Groundwater Potentiometric Data - Attached

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Attached

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

TABLE 2

GROUNDWATER POTENTIOMETRIC DATA

WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY I	PROJECT	#2171.	9
---------	---------	--------	---

Well #	Sample	TOC Elevation (1)	Screened Interval	Depth to Water*	Depth to Product*	Product Thickness	Water Table Elevation	
	Date	ft	ft	ft	ft	ft	ft	
	3/19/1997			13.70	n/a	n/a	86.30	
02314-MW1	6/17/1997	100.00	10 to 20	16.07	n/a	n/a	83.93	
	12/9/2013			20.65	17.31	3.34	81.92**	
02314-MW2	6/17/1997	100.06	100.06	10 to 20	16.04	n/a	n/a	84.02
02314-WW 2	12/9/2013	100.00	100.00		Could l	Not Find		
02314-MW3	6/17/1997	97.54	10 to 20	13.64	n/a	n/a	83.90	
02314-WW 3	12/9/2013	97.54	10 to 20	15.86	n/a	n/a	81.68	
02314-MW4	6/17/1997	99.64	10 to 20	15.75	n/a	n/a	83.89	
02314-W4	12/9/2013	99.04	10 to 20	18.80	16.91	1.89	82.30**	

Notes:

All Data Prior to December 2013 collected by others

n/a = Not applicable

Corrected elevation = Water table elevation + [(0.77)(free product thickness)]

 $^{^{(1)}}$ TOC = Top of casing relative to an assumed data

^{* =} Measured relative to TOC

^{**}Corrected Elevation calculated using following equation:

TABLE 3 GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9 SCDHEC UST PERMIT #02314

Well#	Sample Date	Benzene	Toluene	Ethyl benzene	Xylenes	Naph thalene	MTBE	1,2-DCA	EDB	Lead	TAME	TBA	DIPE	ETBE	ETBA	Ethanol	TAA	TBF
Units		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
RBSL		5	1,000	700	10,000	25	40	5	0.05	15	128	1,400	150	47	N/A	10,000	240	N/A
	3/19/1997	1,530	8,650	1,350	12,730	<100												
02314-MW1	6/17/1997	1,270	6,510	515	6,470	367	<1,000											
	12/9/2013								Free	Product (3.3-	4 ft.)							
02314-MW2	6/17/1997	29	1.25	1.13	136.1	5.5	13.7											
02514-MW2	12/9/2013		Could Not Find															
02314-MW3	6/17/1997	<1.0	<1.0	<1.0	<3.0	<1.0	< 5.0											
02314-MW3	12/9/2013	18.5	102	27.6	374	13.4	<1.00	<1.00	< 0.010	<15.0	<5.00	<10.0	<5.00	<5.00	<100	<1,000	20.4	<50.0
02314-MW3(DUP)	12/9/2013	18.8	98.2	26.1	355	12.7	<1.00	<1.00	< 0.010	<15.0	<5.00	<10.0	<5.00	<5.00	<100	<1,000	16.5J	<50.0
02314-MW4	6/17/1997	5,430	14,300	1,960	19,360	1,090	<2,500											
02314-MW4	12/9/2013								Free	Product (1.8	9 ft.)							
02314-SW1	12/9/2013	<1.00	<1.00	<1.00	<3.00	< 5.00	<1.00	<1.00	< 0.010		<5.00	<10.0	<5.00	< 5.00	<100	<1,000	<20.0	<50.0
02314-SW2	12/9/2013									Dry								
02314-FB	12/9/2013	<1.00	<1.00	<1.00	<3.00	<5.00	<1.00	<1.00	< 0.010		< 5.00	<10.0	<5.00	< 5.00	<100	<1,000	<20.0	<50.0
02314-TR	12/9/2013	<1.00	<1.00	<1.00	< 3.00	<5.00	<1.00	<1.00			<5.00	7.41J	<5.00	<5.00	<100	<1.000	<20.0	<50.0

02314-TB 129/2013 <1.00 <1.00 <1.00 <3.00

NOTENKEY:

— Not tested: not analyzed

RBSL. Risk-Based Screening Level

ug/L. microgram per liter

ng/L. milligrams per liter

JE Estimated Value

FB = Field Blank

TB = Trip Blank

BoM lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

B = (Organics) Indicates the analyte was detected in the associated Method Blank
B = (Inorganics) Indicates the result is between the RDL and MDL
MTBE = tert-Butyl methyl ether
EDB = 1,2-Dbromocchane
1,2-DCA = 1,2-Dichlorocchane
TAME = t-uml methyl ether or tert-Amyl methyl ether
TBA = t-Butanol or tert-Butyl Akohol

DIPE = disopropyl Ether or Isopropyl ether ETBE = Ethyl iert-butyl ether ETBA = ethyl iert-butanol or 3,3-Dimethyl-1-butanol TAA = tert-amyl alcohol TBF = tert-butyl formate

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

4. Site Potentiometric Maps

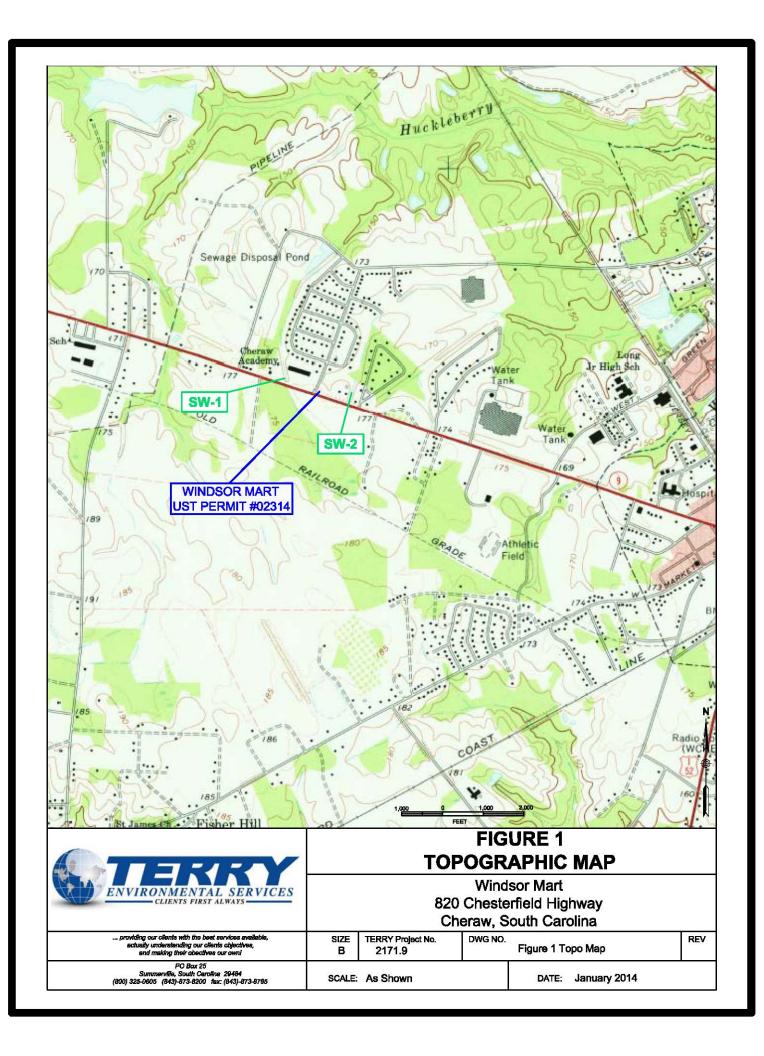
Figure 5 Site Potentiometric Map - Attached

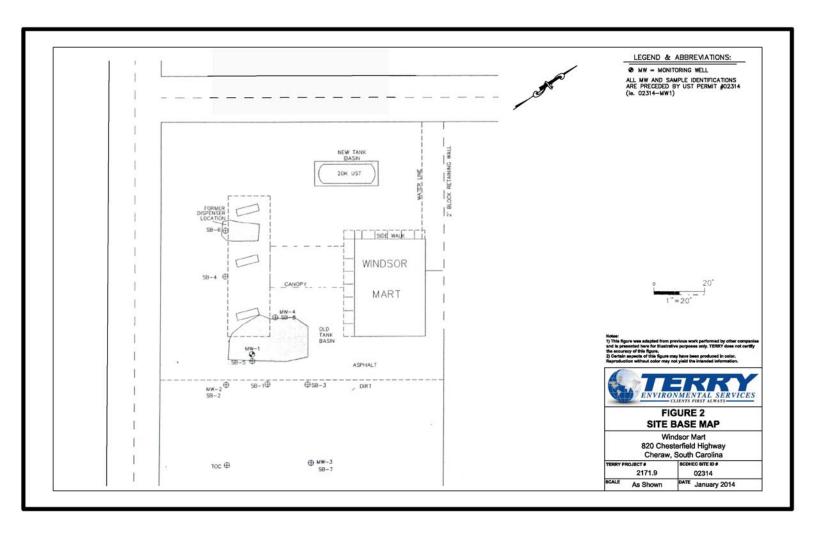
5. Geologic Cross Sections

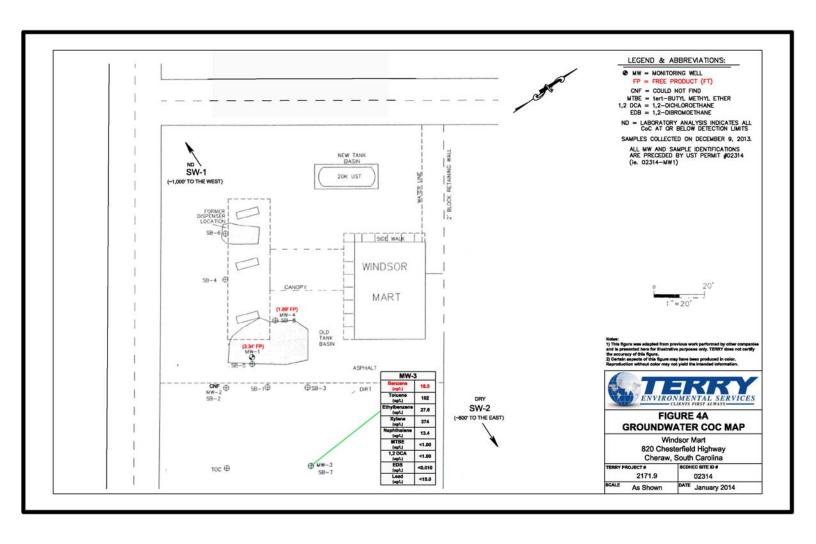
Figure 6 Geologic Cross Sections - Not Applicable

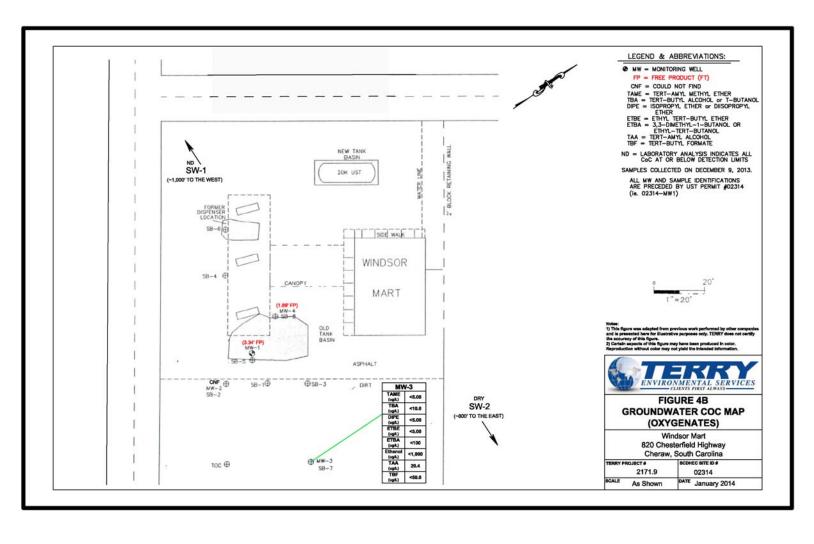
6. Predicted Migration and Attenuation of CoCs

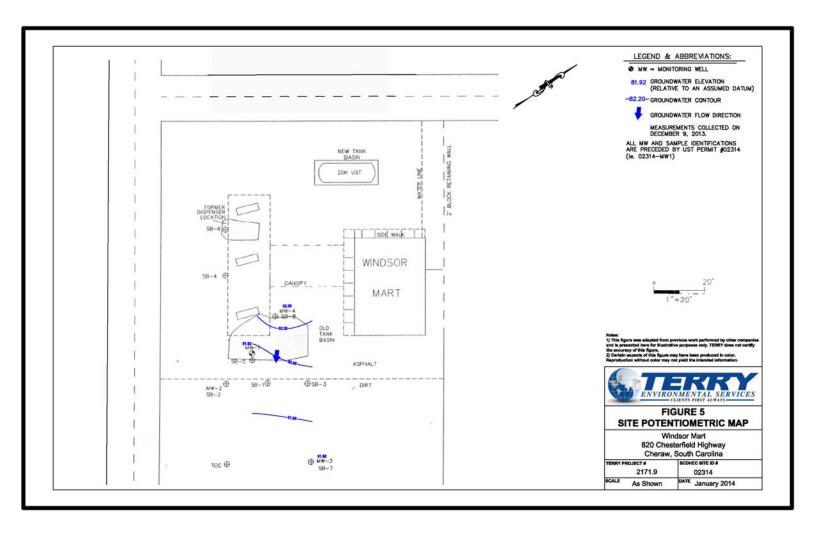
Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable











K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifest
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

TER	RYEn	vironmental s	Services	5				Summervill	P.O. Box 25 le, SC 29484 00-325-0605
		M	onitoring W	Vell Informat	tion				
Terry Proje	ect ID	2171.9				Well ID	02314 - 1	NWI	
SCDHEC Permi	it No.	02314					DEEN N	1 MEDE 1	2.004
Project !	Vame	Windsor Mart			Testin	ng Parameters		oh, MTBE, 1	
	Date	12/9 /2013					Oxygenates, Ethanol, EDB, & Lead		
Field Perso	onnel	ZK				Well Diameter	7	in	TAG
General We	ather	Cloudy			Scr	eened Interval	10-20	ft	BOTTOM OF
Ambient Air Temper		55		Total	Well Depth	(nearest 0.1')	_	ft	WELL TO VERIFY
	Quality As	surance		Depth to G	roundwater	(nearest 0.01')	20.65	ft	WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing V	olume (0.163)	_	ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)			_	gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Volume Purged				gals	0.1
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pump)					100000000000000000000000000000000000000
Last Calibration (time)	1320.	Last Verification √(time)	-	Well	Yield	Low	Medium	High \square	
Volume	(gal) Initial								
Time (mil	itary)								
pH	I (su)	No S	mple,	Free	Produ	act			
Spec Conductivity (m.	S/cm)	1.0	1	1223					
Water Temperature	? (°C)								
Turbidity (VTU)								
Dissolved Oxygen (n	0 /								
	Well Condition	Information			- 255-2	Additiona	l Comments		
-overall condition accept	table?	W.5			DTP	17.3			
-well cap accept	table?				DTH	1 20.6	5		
-manhole and cover acceptable?					PIFF				
-well pad accept	table?						8		
-area	safe?	V		D	ark Br	DWN, Tre	insparent	6	
-other com	mante								

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TER	KY En	vironmenta	l Services	<u>5</u>			Summervill	P.O. Box 25 le, SC 29484 00-325-0605				
	Site Specific	Information		Monitoring Well Information								
Terry Proje	ect ID	2171.9			Well ID	02314 -	- 988 MU	フと				
SCDHEC Permi	it No.	02314				BTEX, Naph, MTBE, 1,2-DCA,						
Project !	Vame	Windsor Mart		7	esting Parameters							
	Date	17 /9 /2013				Oxygenates, Ethanol, & EDB						
Field Perse	onnel	3K			Well Diameter		in	T1.0				
General We	ather	Clovely			Screened Interval		ft	TAG BOTTOM OI				
Ambient Air Temper	ature	55 D		Total Well D	Pepth (nearest 0.1')		ft	WELL TO VERIFY				
	Quality A	ssurance		Depth to Groundw	ater (nearest 0.01')		ft	WELL				
pH Meter	Horiba U-52-2	Conductivity Me	eter Horiba U-52-2	Length	of Water Column		ft	DEPTH, WRITE				
Serial Number	VWKAUMKJ	Serial Num	ber VWKAUMKJ	1 Casing Volume (0.163)			ft	BELOW TO				
Calibration Constant	4.00	Calibration Const	ant 4.49 mS/cm	3 Casing Volumes (0.489)			gals	NEAREST 0.1'				
Calibration Constant	6.86	Calibration Const	ant 53.0 mS/cm	Tot	al Volume Purged		gals	···				
Calibration Constant	9.18	Calibration Const		Purge Technique U				<u> </u>				
Last Calibration (time)	1220	Last Verification √(ti	me)	Well Yield Low 🗆		Medium 🗆	High 🗆					
Volume	(gal) Initial											
Time (mil	itary)											
рŁ	I (su)		CNF									
Spec Conductivity (m.)	S/cm)											
Water Temperature	? (°C)											
Turbidity (1	NTU)											
Dissolved Oxygen (n	~ /											
	Well Condition	n Information	Additional Comments									
-overall condition accep	table?	•	CNF.									
-well cap accep	table?						·····					
-manhole and cover accep	table?			A39	sumed D	avel O	ves					
-well pad accep	table?											
-area	safe?											
other com	mante											

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TER	RYEn	vironn	nental .	Services	5						Summervil	P.O. Box 25 le, SC 29484 00-325-0605	
4	Site Specific	Informatio	n		Monitoring Well Information								
Terry Proje	ct ID	21	2171.9			Well ID			02314 - MW 3				
SCDHEC Permi	it No.	02314								2.004			
Project N	Windsor Mart				Testing Parameters			BTEX, Naph, MTBE, 1,2-DC					
	Date	12/9	/2013						Oxygenates, Ethanol, EDB, & Lead				
Field Perso	onnel	JY					Well Dia	meter	2		in	TAG	
General We	ather	Clo	nels			Sc	reened In	terval	10-2	0	ft	воттом он	
Ambient Air Temper	6444.000		550		Tota	l Well Dep	th (neare:	st 0.1')	ZO . 1	0	ft	WELL TO VERIFY	
	Quality A:	ssurance	7.007		Depth to G	iroundwate	er (nearest	0.01')	15.8	36	ft	WELL	
pH Meter	Horiba U-52-2	Cond	luctivity Meter	Horiba U-52-2		Length of	Water Co	lumn	4.1	4	ft	DEPTH, WRITE	
Serial Number	VWKAUMKJ	S	Serial Number	VWKAUMKJ	1 Casing Volume (0.163)			0.163)	0.6	7	ft	BELOW TO	
Calibration Constant	4.00	4.00 Calibration Constant		4.49 mS/cm	3 Casing Volumes (0.489)			7.0		gals	NEAREST 0.1'		
Calibration Constant	6.86	Calibration Constant		53.0 mS/cm	Total Volume Purged			2.2	25	gals			
Calibration Constant	9.18	Calibration Constant		58.7 mS/cm	Purge Technique Utilized (builer, pum						320		
Last Calibration (time)	Last Calibration (time) 1370		Last Verification √(time)		Well Yield Low		Medium 🔀		High 🗆	20,0			
Volume		0.75	1.5	2.25									
Time (mili		1337	1339	1341			*						
pH	1 (su) 3.69	4.36	4.39	4.38	4 1								
Spec Conductivity (m.S		0.100	0.103	0:105									
Water Temperature	1310	20.7	20.7	20.7									
Turbidity (?		160	148	166		-							
Dissolved Oxygen (n	0 /	2,75	2.25	2,66					1.0				
Well Condition Information							Addi	uona	l Comm	ents			
-overall condition acceptable?								00					
-well cap accept		0											
-manhole and cover accept													
-well pad accept	-												
	safe?		/										
-other com	ments												

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TER	15	En	viro s first	NN ALW	nental .	Services	5						P.O. Box 25 le, SC 29484 00-325-0605		
	Sit	e Specific I	nform	atio	n		Monitoring Well Information								
Terry Proje	ect ID		2171.9							Well ID	02314 -	MWY			
SCDHEC Permi	SCDHEC Permit No.			02314							BTEX, Naph, MTBE, 1,2-DCA,				
Project Name			Windsor Mart				Testing Parameters			The second of the second second	•				
	12 A	19	/2013						Oxygenates, Ethanol, EDB, & Lead						
Field Perso			ZK					И	Vell Diameter	2	in	m. c			
General We	ather			Clo	vely				Scre	ened Interval	10-20	ft	TAG BOTTOM OF		
Ambient Air Temper	ature			5	5		To	tal)	Well Depth	(nearest 0.1')	_	ft	WELL TO VERIFY		
		Quality As	suran	ce			Depth to	Gra	oundwater	(nearest 0.01')	18.8	ft	WELL		
pH Meter	Ho	riba U-52-2		Cond	uctivity Meter	Horiba U-52-2		L	ength of W	ater Column	_	ft	DEPTH, WRITE		
Serial Number	VV	VKAUMKJ		5	Serial Number	VWKAUMKJ		1 Casing Volume (0.163)		_	ft	BELOW TO			
Calibration Constant		4.00	Calibration Constant		4.49 mS/cm	3 Casing Volumes (0.489)		-	gals	NEAREST 0.1'					
Calibration Constant		6.86	Calibration Constant		53.0 mS/cm	Total Volume Purged				gals					
Calibration Constant		9.18	Calibration Constant		58.7 mS/cm	Purge Technique Utilized (bailer, pump)									
Last Calibration (time)	13	058	Last Verification √(time)		_	Well Yield Low □		Medium	High \square						
Volume	(gal)	Initial													
Time (mil	itary)														
pH	I (su)				Free	Prochec	+ , N	0	San	nl					
Spec Conductivity (m.	S/cm)						, .			1 -0					
Water Temperature	(°C)														
Turbidity (1	NTU)														
Dissolved Oxygen (n	0 ,														
	Well	l Condition	Infor	mati	on		Additional Comments								
-overall condition acceptable?							DTP. 16.90								
-well cap acceptable?			0				DTW 18.80								
-manhole and cover accept	table?								Dia	FF 1	84	-			
-well pad accept	table?										, B				
-area	safe?		1	/			D Light Brown Transparent								
-other com	ments														

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TER		Y En	vironn s first alw.	nental !	Services	5				Su	mmervil	P.O. Box 25 le, SC 29484 00-325-0605		
	Site S	Specific I	nformatio	n		Monitoring Well Information								
Terry Proje	ct ID		21	71.9		Well ID 02314 - SW 1					1			
SCDHEC Permi	it No.		02314					DEEL N. I. MEDE 10 DOL						
Project N	Vame		Windsor Mart				Testin	ng Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, EDB, & Lead					
5-00-11-	Date		1219	/2013					Oxygenates, Ethanol, EDB, & Lead					
Field Perso		Ji	(Well Diameter	_		in				
General Weather			C	lovely			Scre	eened Interval	-		ft	TAG BOTTOM OF		
Ambient Air Temper	ature		550			Total	Well Depth	(nearest 0.1')	_		ft	WELL TO		
	Quality As	ssurance			Depth to Gr	oundwater	(nearest 0.01')	_		ft	VERIFY WELL			
pH Meter	Horiba	a U-52-2	Cond	luctivity Meter	Horiba U-52-2		Length of V	Vater Column	_		ft	DEPTH,		
Serial Number	VWK	AUMKJ Serial Number		VWKAUMKJ	1 Casing Volume (0.163)					ft BELOW T	BELOW TO			
Calibration Constant	4	4.00	Calibration Constant		4.49 mS/cm	3 Casing Volumes (0.489)			_	— gals	gals	NEAREST 0.1'		
Calibration Constant	6	5.86	Calibra	ation Constant	53.0 mS/cm	Total Volume Purged			_		gals	0.1		
Calibration Constant	9	9.18	Calibra	tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pump)								
Last Calibration (time)	132	0	Last Verification √(time)			Well Yield Low □			Medium High					
Volume	(gal) I	initial							0					
Time (mili	itary) 1	500	Sam	file										
рH	I (su)	5.40		1										
Spec Conductivity (mS	S/cm)	0.051	-											
Water Temperature	(°C)	11.7												
Turbidity (?	VTU)	161												
Dissolved Oxygen (n		6.26												
Well Condition Information					Additional Comments									
-overall condition accept	table?		y SW											
-well cap accept	table?		e)											
-manhole and cover accept	table?													
-well pad accept														
-area	safe?													
-other com	ments													

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TER	K	YEn CLIENT	VIPONN S FIRST ALW	iental .	Services	<u>S</u>					P.O. Box 2: lle, SC 2948- 300-325-060		
	Site	Specific I	nformatio	n		Monitoring Well Information							
Terry Projec	ct ID		2171.9					Well ID	02314				
SCDHEC Permi	t No.		02	2314					DWDW M				
Project N	Project Name			Windsor Mart				Testing Parameters			1,2-DCA,		
	Date		12 / 9 /2013						Oxygenates, Ethanol, & EDB				
Field Perso	nnel		3K				Well Diameter			in	10000000		
General Wed	ather		Cloudly				Scr	eened Interval	_	ft	TAG BOTTOM O		
Ambient Air Tempere	ature			550		Total	Well Depti	h (nearest 0.1')		ft	WELL TO		
			Depth to Gr	roundwater	(nearest 0.01')	_	ft	VERIFY WELL					
pH Meter	Hor	iba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water Column	_	ft	DEPTH,		
Serial Number	VW	KAUMKJ	S	Serial Number	VWKAUMKJ		1 Casing Volume (0.163)			ft	WRITE BELOW TO		
Calibration Constant		4.00	Calibration Constant		4.49 mS/cm	3 Casing Volumes (0.489)		_	gals	NEAREST 0.1'			
Calibration Constant		6.86	Calibration Constant		53.0 mS/cm	Total Volume Purged			/	gals	1 0.1		
Calibration Constant		9.18	Calibration Constant 5		58.7 mS/cm	Purge Techi	nique Utiliz	ed (bailer, pun	ip)				
Last Calibration (time)	1	1320.	Last Verification √(time)		-	Well Yield Low		Medium	High 🗆	1			
Volume		Initial											
Time (mili	itary)												
рН	(su)												
Spec Conductivity (mS	Vcm)					No.							
Water Temperature	(°C)					10							
Turbidity (N	VTU)												
Dissolved Oxygen (m	ıg/L)										5.		
Well Condition Information						Additional Comments							
-overall condition acceptable?						No Sample - Ditch Dan.							
-well cap accept	able?							1		4	1		
-manhole and cover accept	able?										V		
-well pad accept	able?												
-area	safe?												
4													

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HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Date/Time: 12.9.13/1320 Ins	spector:
Lot Number: 42324 - 16 Expira	tion Date: <u>U/15</u>
Instrument Reading	<u>Accuracy</u>
3,96	± 0.04
4.50 mS/cm	± 0.01 mS/cm
O·l_NTU	± O' (NTU
Instrument Reading	Accuracy
15.3 °C	± Ø`∂ °C
APP Acceptance Criteria	
<u>Accuracy</u>	
±1°C against an Ni	IST-traceable thermometer
10% of each standa	ard used
± 0.2 pH units of sto	ated buffer value
10% of each standa	ard used
ector's Maintenance Notes Vindsor Mart /2171.	9
	Lot Number: 42324-16 Expira Instrument Reading 3,96 4.80 mS/cm 0.1 NTU Instrument Reading 15,3 °C APP Acceptance Criteria Accuracy ±1°C against an No. 10% of each stando ±0.2 pH units of stando 10% of each stando 200 of each stando 200 of each stando 200 of each stando 200 of each stando



HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: <u>VWKAUMKJ</u> I	Date/Time: 17913 15	515 30 Inspector:	s ic		
Solution Manufacturer: Aurical	Lot Number: 42324-16	Expiration Date: 11/	15		
Solution Value	Instrument Reading		uracy		
pH: 4.00	4.01		0.0(
Conductivity: 4.49 mS/cm	4.52 mS/cm	± C	0.03 _{mS/cm}		
Turbidity: 0.0 NTU	NTU	± C	UTN J		
Standard Reading	Instrument Readin	ig <u>Acc</u>	<u>uracy</u>		
NIST-Traceable Thermometer:	15.4°C	± (00 ℃		
QA	PP Acceptance Criteria				
Field Parameter	Acc	uracy			
Temperature	±1°C again	st an NIST-traceable t	hermometer		
Specific Conductance	10% of eac	h standard used			
pH	$\pm 0.2~pH$ un	its of stated buffer valı	ie		
Turbidity	10% of eac	h standard used			
Inspector's Maintenance Notes Windsol Mart / 2171.6					



ANALYTICAL REPORT

CLIENT

Terry Environmental P.O. Box 25 Summerville, SC 29484

> ATTENTION Kelly Cone

PROJECT ID
Windsor Mart/ 2171.9

LABORATORY REPORT NUMBER

213121052

DATE 12/18/2013

Primary Data Review By

Secondary Data Review By

Authorized Signature

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.
- GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue Baton Rouge, LA 70820

Report Date 12/18/2013

GCAL Report 213121052



Deliver To Terry Environmental P.O. Box 25 Summerville, SC 29484

Attn Kelly Cone

Project Windsor Mart/ 2171.9

CASE NARRATIVE

Client: Access Analytical Report: 213121052

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit

MDL Method Detection Limit
RDL Reporting Detection Limit

00:00 Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

- J Indicates the result is between the MDL and RDL
- U Indicates the compound was analyzed for but not detected
- B Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Authorized Signature

GCAL REPORT 213121052

THIS REPORT CONTAINS PAGE

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105201	02314-MW3	Water	12/09/2013 13:41	12/10/2013 11:20
21312105202	02314-SW1	Water	12/09/2013 15:00	12/10/2013 11:20
21312105203	02314-MW3 DUP	Water	12/09/2013 13:43	12/10/2013 11:20
21312105204	02314-FB	Water	12/09/2013 13:10	12/10/2013 11:20
21312105205	02314-TB	Water	12/09/2013 00:00	12/10/2013 11:20

Summary of Compounds Detected

GCAL ID 21312105201	Client ID 02314-MW3	Matrix Water	Collect Date/Time 12/09/2013 13:41			
EPA 8260B	02314-191993	vvalei	12/09/2010 10.41	12/	10/2013 11.20	
	Paramatan.		Door!!	DDI	MDI	l laita
CAS#	Parameter		Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)		20.4	20.0	1.01	ug/L
EPA 8260B						
CAS#	Parameter		Result	RDL	MDL	Units
71-43-2	Benzene		18.5	1.00	0.111	ug/L
108-88-3	Toluene		102	1.00	0.122	ug/L
100-41-4	Ethylbenzene		27.6	1.00	0.109	ug/L
1330-20-7	Xylene (total)		374	3.00	0.179	ug/L
91-20-3	Naphthalene		13.4	5.00	0.176	ug/L
GCAL ID	Client ID	Matrix	Collect Date/Time	Red	ceive Date/Time	
21312105203	02314-MW3 DUP	Water	12/09/2013 13:43	12/	10/2013 11:20	
EPA 8260B						
CAS#	Parameter		Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)		16.5J	20.0	1.01	ug/L
EPA 8260B						
CAS#	Parameter		Result	RDL	MDL	Units
71-43-2	Benzene		18.8	1.00	0.111	ug/L
108-88-3	Toluene		98.2	1.00	0.122	ug/L
100-41-4	Ethylbenzene		26.1	1.00	0.109	ug/L
1330-20-7	Xylene (total)		355	3.00	0.179	ug/L
91-20-3	Naphthalene		12.7	5.00	0.176	ug/L
GCAL ID	Client ID	Matrix	Collect Date/Time	Red	ceive Date/Time	
21312105205	02314-TB	Water	12/09/2013 00:00	12/	10/2013 11:20	
EPA 8260B						
CAS#	Parameter		Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)		7.41J	10.0	0.290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105201	02314-MW3	Water	12/09/2013 13:41	12/10/2013 11:20

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 05:41	By AMD	Analytical B 521854	atch
CAS#	Parameter		Result	RDL		MDL	Units
71-43-2	Benzene		18.5	1.00		0.111	ug/L
108-88-3	Toluene		102	1.00		0.122	ug/L
100-41-4	Ethylbenzene		27.6	1.00		0.109	ug/L
1330-20-7	Xylene (total)		374	3.00		0.179	ug/L
91-20-3	Naphthalene		13.4	5.00		0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTE	BE)	<1.00	1.00		0.078	ug/L
107-06-2	1,2-Dichloroethane		<1.00	1.00		0.116	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Reco	very	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L		98	78 - 130
1868-53-7	Dibromofluoromethane	50	48.1	ug/L		96	77 - 127
2037-26-5	Toluene d8	50	48	ug/L		96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L		103	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 05:41	-	Analytical E 521853	Batch
CAS#	Parameter		Result	RDL		MDL	Units
994-05-8	t-amyl methyl ether (TAM	E)	<5.00	5.00		0.240	ug/L
75-65-0	t-Butanol (TBA)		<10.0	10.0		0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)		<5.00	5.00		0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETI	BE)	<5.00	5.00		0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)		<100	100		37.6	ug/L
64-17-5	Ethanol		<1000	1000		125	ug/L
75-85-4	tert-amyl alcohol (TAA)		20.4	20.0		1.01	ug/L
762-75-4	tert-butyl formate (TBF)		<50.0	50.0		0.487	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recov	ery/	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L		98	78 - 130
1868-53-7	Dibromofluoromethane	50	48.1	ug/L		96	77 - 127
2037-26-5	Toluene d8	50	48	ug/L		96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L		103	71 - 127

EPA 8011

Prep Date 12/13/2013 06:	Prep Batch :30 521653	Prep Method EPA 8011	Dilution 1	Analyzed 12/17/2013 15:19	•	nalytical Batch 22115	
CAS#	Parameter		Result	RDL	N	MDL	Units
106-93-4	1,2-Dibromoethane		< 0.010	0.010	0.0	0390	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105201	02314-MW3	Water	12/09/2013 13:41	12/10/2013 11:20

EPA 6010C

Prep Date 12/11/2013 10	Prep Batch 0:20 521676	Prep Method EPA 3010A	Dilution 1	Analyzed 12/13/2013 12:52	By AWG	Analytical Batch 521882	
CAS#	Parameter		Result	RDL		MDL	Units
7439-92-1	Lead		<15.0	15.0		3.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105202	02314-SW1	Water	12/09/2013 15:00	12/10/2013 11:20

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 06:04	By Analyt JCK 521854	ical Batch
CAS#	Parameter		Result	RDL	MDL	Units
71-43-2	Benzene		<1.00	1.00	0.111	ug/L
108-88-3	Toluene		<1.00	1.00	0.122	ug/L
100-41-4	Ethylbenzene		<1.00	1.00	0.109	ug/L
1330-20-7	Xylene (total)		<3.00	3.00	0.179	ug/L
91-20-3	Naphthalene		<5.00	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MT	BE)	<1.00	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane		<1.00	1.00	0.116	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	48.5	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.8	ug/L	104	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 06:04	-	Analytical Bate 521853	ch
CAS#	Parameter		Result	RDL		MDL	Units
994-05-8	t-amyl methyl ether (TAME))	<5.00	5.00		0.240	ug/L
75-65-0	t-Butanol (TBA)		<10.0	10.0		0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)		<5.00	5.00		0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	<5.00	5.00		0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)		<100	100		37.6	ug/L
64-17-5	Ethanol		<1000	1000		125	ug/L
75-85-4	tert-amyl alcohol (TAA)		<20.0	20.0		1.01	ug/L
762-75-4	tert-butyl formate (TBF)		<50.0	50.0		0.487	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recov	ery R	ec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L		95	78 - 130
1868-53-7	Dibromofluoromethane	50	50.5	ug/L		101	77 - 127
2037-26-5	Toluene d8	50	48.5	ug/L		97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.8	ug/L		104	71 - 127

EPA 8011

Prep Date 12/13/2013 06:30	Prep Batch 521653	Prep Method EPA 8011	Dilution 1	Analyzed 12/17/2013 15:37	By DLB	Analytical Batch 522115	
CAS#	Parameter		Result	RDL		MDL	Units
106-93-4	1,2-Dibromoethane		<0.010	0.010		0.00390	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105203	02314-MW3 DUP	Water	12/09/2013 13:43	12/10/2013 11:20

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 06:26	By AMD	Analytical B 521854	atch
CAS#	Parameter		Result	RDL		MDL	Units
71-43-2	Benzene		18.8	1.00		0.111	ug/L
108-88-3	Toluene		98.2	1.00		0.122	ug/L
100-41-4	Ethylbenzene		26.1	1.00		0.109	ug/L
1330-20-7	Xylene (total)		355	3.00		0.179	ug/L
91-20-3	Naphthalene		12.7	5.00		0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MT	BE)	<1.00	1.00		0.078	ug/L
107-06-2	1,2-Dichloroethane		<1.00	1.00		0.116	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Reco	very	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L		100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.3	ug/L		99	77 - 127
2037-26-5	Toluene d8	50	46.8	ug/L		94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L		103	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 06:26	By Analytic JCK 521853	al Batch
CAS#	Parameter		Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	<5.00	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)		<10.0	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)		<5.00	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE	<u>:</u>)	<5.00	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)		<100	100	37.6	ug/L
64-17-5	Ethanol		<1000	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)		16.5J	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)		<50.0	50.0	0.487	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	46.8	ug/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L	103	71 - 127

EPA 8011

Prep Date 12/13/2013 06:	Prep Batch :30 521653	Prep Method EPA 8011	Dilution 1	Analyzed 12/17/2013 15:55	•	nalytical Batch 22115
CAS#	Parameter		Result	RDL	N	MDL Units
106-93-4	1.2-Dibromoethane		< 0.010	0.010	0.00	0390 ua/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105203	02314-MW3 DUP	Water	12/09/2013 13:43	12/10/2013 11:20

EPA 6010C

Prep Date 12/11/2013 10	Prep Batch 0:20 521676	Prep Method EPA 3010A	Dilution 1	Analyzed 12/13/2013 12:58	By AWG	Analytical Batch 521882	
CAS#	Parameter		Result	RDL		MDL	Units
7439-92-1	Lead		<15.0	15.0		3.75	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105204	02314-FB	Water	12/09/2013 13:10	12/10/2013 11:20

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 06:48	By Analytic JCK 521854	cal Batch
CAS#	Parameter		Result	RDL	MDL	Units
71-43-2	Benzene		<1.00	1.00	0.111	ug/L
108-88-3	Toluene		<1.00	1.00	0.122	ug/L
100-41-4	Ethylbenzene		<1.00	1.00	0.109	ug/L
1330-20-7	Xylene (total)		<3.00	3.00	0.179	ug/L
91-20-3	Naphthalene		<5.00	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MT	BE)	<1.00	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane		<1.00	1.00	0.116	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 06:48	By AMD	Analytical Ba	atch
CAS#	Parameter		Result	RDL		MDL	Units
994-05-8	t-amyl methyl ether (TAME	Ξ)	<5.00	5.00		0.240	ug/L
75-65-0	t-Butanol (TBA)		<10.0	10.0		0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)		<5.00	5.00		0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBI	E)	<5.00	5.00		0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)		<100	100		37.6	ug/L
64-17-5	Ethanol		<1000	1000		125	ug/L
75-85-4	tert-amyl alcohol (TAA)		<20.0	20.0		1.01	ug/L
762-75-4	tert-butyl formate (TBF)		<50.0	50.0		0.487	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Reco	very	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L		100	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L		100	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L		99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L		99	71 - 127

EPA 8011

Prep Date 12/13/2013 06:	Prep Batch :30 521653	Prep Method EPA 8011	Dilution 1	Analyzed 12/17/2013 16:13	•	Analytical Batch 522115	
CAS#	Parameter		Result	RDL		MDL	Units
106-93-4	1,2-Dibromoethane		< 0.010	0.010	0	0.00390	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21312105205	02314-TB	Water	12/09/2013 00:00	12/10/2013 11:20

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 07:11	•	Analytical 521854	l Batch
CAS#	Parameter		Result	RDL		MDL	Units
71-43-2	Benzene		<1.00	1.00		0.111	ug/L
108-88-3	Toluene		<1.00	1.00		0.122	ug/L
100-41-4	Ethylbenzene		<1.00	1.00		0.109	ug/L
1330-20-7	Xylene (total)		<3.00	3.00		0.179	ug/L
91-20-3	Naphthalene		< 5.00	5.00		0.176	ug/L
1634-04-4	tert-Butyl methyl ether (N	MTBE)	<1.00	1.00		0.078	ug/L
107-06-2	1,2-Dichloroethane		<1.00	1.00		0.116	ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recov	ery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L		99	78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L		101	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L		99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L		99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 12/13/2013 07:11	-	nalytical Batch 1853
CAS#	Parameter		Result	RDL	ı	MDL Units
994-05-8	t-amyl methyl ether (TA	ME)	<5.00	5.00	().240 ug/L
75-65-0	t-Butanol (TBA)		7.41J	10.0	().290 ug/L
108-20-3	diisopropyl Ether (DIPE)	<5.00	5.00	().236 ug/L
637-92-3	Ethyl tert-butyl ether (E	TBE)	<5.00	5.00	().234 ug/L
624-95-3	Ethyl tert-butanol (ETB/	۹)	<100	100		37.6 ug/L
64-17-5	Ethanol		<1000	1000		125 ug/L
75-85-4	tert-amyl alcohol (TAA)		<20.0	20.0		1.01 ug/L
762-75-4	tert-butyl formate (TBF)		<50.0	50.0	().487 ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recove	ry Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	ę	99 78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	10)1 77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	9	99 76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	9	99 71 - 127

GC/MS Volatiles Quality Control Summary

Analytical Bat	tch 521854	Client ID	MB521854			LCS521854			LCSD521854			
Prep Bat	tch N/A	GCAL ID	1265337			1265338			1265339			
<u> </u>		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	12/12/2013 23:33			12/12/2013 22:02			12/12/2013 22:24			
		Matrix	Water			Water			Water			
	EPA 826	NP.	Units	ug/L	Spike	Descrit		Control	Decuit			RPD
	EPA 020	UD	Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
107-06-2	1,2-Dichloroe	thane	<1.00	1.00	50.0	49.5	99	71 - 129	49.0	98	1	30
100-41-4	Ethylbenzene		<1.00	1.00	50.0	52.1	104	74 - 126	48.7	97	7	30
1634-04-4	tert-Butyl met	hyl ether (MTBE)	<1.00	1.00	50.0	49.8	100	71 - 125	50.3	101	1	30
1330-20-7	Xylene (total)		<3.00	3.00	150	154	103	74 - 127	142	95	8	30
91-20-3	Naphthalene		<5.00	5.00	50.0	45.2	90	57 - 138	46.9	94	4	35
71-43-2	Benzene		<1.00	1.00	50.0	50.3	101	70 - 129	48.7	97	3	20
108-88-3	Toluene		<1.00	1.00	50.0	49.4	99	72 - 120	46.7	93	6	20
Surrogate			447									
460-00-4	4-Bromofluoro	obenzene	47.5	95	50	50.5	101	78 - 130	50.8	102		
1868-53-7	Dibromofluoro	omethane	50.3	101	50	51.8	104	77 - 127	50.3	101		
2037-26-5	Toluene d8		47.1	94	50	45.9	92	76 - 134	48.4	97		
17060-07-0	1,2-Dichloroel	thane-d4	51.3	103	50	49.3	99	71 - 127	52.1	104		

GC/MS Volatiles Quality Control Summary

Analytical Batc	h 521853	Client ID	MB521853			LCS521853			LCSD521853			
Prep Batc	h N/A	GCAL ID	1265334			1265335			1265336			
R		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	12/12/2013 23:33			12/12/2013 22:02			12/12/2013 22:24			
		Matrix	Water			Water			Water			
	EPA 8260	В	Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
994-05-8	t-amyl methyl e	ether (TAME)	<5.00	5.00	50.0	51.7	103	50 - 150	49.2	98	5	50
75-65-0	t-Butanol (TBA)	<10.0	10.0	50.0	59.6	119	50 - 150	55.4	111	7	50
108-20-3	diisopropyl Eth	er (DIPE)	<5.00	5.00	50.0	54.1	108	50 - 150	48.7	97	11	50
637-92-3	Ethyl tert-butyl	ether (ETBE)	<5.00	5.00	50.0	49.7	99	50 - 150	49.0	98	1	50
624-95-3	Ethyl tert-butar	nol (ETBA)	<100	100	2550	2370	93	50 - 150	2500	98	5	50
64-17-5	Ethanol		<1000	1000	25200	24500	97	50 - 150	27100	108	10	50
75-85-4	tert-amyl alcoh	ol (TAA)	<20.0	20.0	200	208	104	50 - 150	207	104	1	50
762-75-4	tert-butyl forma	ite (TBF)	<50.0	50.0	50.0	40.5	81	50 - 150	40.3	81	1	50
Surrogate												
460-00-4	4-Bromofluorob	penzene	47.5	95	50	50.5	101	78 - 130	50.8	102		
1868-53-7	Dibromofluoror	methane	50.3	101	50	51.8	104	77 - 127	50.3	101		
2037-26-5	Toluene d8		47.1	94	50	45.9	92	76 - 134	48.4	97		
17060-07-0	1,2-Dichloroeth	nane-d4	51.3	103	50	49.3	99	71 - 127	52.1	104		

General Chromatography Quality Control Summary

Analytical Batch	522115	Client ID	MB521653			LCS521653			LCSD521653			
Prep Batch	521653	GCAL ID	1264203			1264204			1264205			
Prep Method	EPA 8011	Sample Type	Method Blank			LCS			LCSD			
		Prep Date	12/13/2013 06:30			12/13/2013 06:30			12/13/2013 06:30			
		Analytical Date	12/17/2013 14:08			12/17/2013 14:25			12/17/2013 14:43			
		Matrix	Water			Water			Water			
EPA 8011			Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
106-93-4	106-93-4 1,2-Dibromoethane		<0.010	0.010	0.992	0.868	88	55 - 141	0.831	81	4	40

Inorganics Quality Control Summary

Analytical Batch	521882	Client ID	MB521676			LCS521676		
Prep Batch	521676	GCAL ID	1264301			1264302		
Prep Method	EPA 3010A	Sample Type	Method Blank			LCS		
		Prep Date	12/11/2013 10:20			12/11/2013 10:20		
		Analytical Date	12/13/2013 12:39			12/13/2013 12:45		
		Matrix	Water			Water		
	EDA 6010	C	Units	ug/L	Spike	Deculé		Control
EPA 6010C			Result	RDL Added Result		Result	% R	Limits % R
7439-92-1	7439-92-1 Lead		<15.0	15.0	500	553	111	80 - 120

7439-92-1 Lead			Result 174	RDL 15.0	Added 500	739	% R	80 - 120	736	% R	RPD	Limit 20
1	EPA 6010	С	Units	ug/L	Spike	Result		Control	Result			RPD
		Matrix	Water			Water			Water			
		Analytical Date	12/13/2013 13:17			12/13/2013 13:23			12/13/2013 13:30			
		Prep Date	12/11/2013 10:20			12/11/2013 10:20			12/11/2013 10:20			
Prep Method	EPA 3010A	Sample Type	SAMPLE			MS			MSD			
Prep Batch	521676	GCAL ID	21312105403			1264303			1264304			
Analytical Batch	521882	Client ID	MW-3			1264135MS			1264135MSD			

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City: Summeril	BOX Z5 State: SC Zip: 6 BLOOFax:	29484	NALYSIS: 4	Oxygunes, Ethanol	i who ji w	tes y nam hamelezin	ontal later	Andrews to	controlled spherical	Irmo, SC	lisle Street 29063 WWW.axs Codes (place correspo ICL, 2 = HNOs, 3 = Hs 35 set W/NaHSOs & CH	Fax i-inc.com	: 781-4303
Project ID: Winds	environmen	1 0	REQUESTED LAB ANALYSIS:	Oxyguntes, E	Lead Lead	S of some very some of the som	ne tration deposition position	this parent of chanton of this could	relation in the also do a relation	"Matrix Codes GW = ground w SL = sludge, A (specify in com "Propram Area	(place corresponding a vater, WW = waste wat = air, TW = industrial w iments section)	code in matrix column er, DW = crinking wa aste, WO = waste oil	n): der, S = soil, t, QT = other
Sampled By:	3K		REO	S. X	100	art) Indea	A STORY	r toy f	do finge	Wastes (for soil	Vater Act (for drinking vis., ground waters and vise; G = Glass, P		and mazaroous
Sample ID/Description	Date Time Collected: Collected:	Type: Matrix: Program (grab or (see codes) Area	n TOTAL	0	day	on the plan	Fow 5	The Same	to all to	a militari ma	NOTES / C	OMMENTS	
02314-MW3	12.9.13 1341	G GWWST	75	2 2	1	le di hod			Anright		chort know but		1
02314-SWI	1500		The services of the services o	22	1	a jembii	(C) (C)	ni leng k	95 of 05	Augusta A	CILIADEROPE	con	2
92314-MW3DUP		Service de color	5	77	1				TELEBA	TAN DESCRIPTION	smer vines as	120	3
72314- FB	1310	entral official manual	The state of the s	22	/	OH STATE	THE REAL PROPERTY.	10 107.201	III III III	us at sea thrown and the	area most sore	State of	4
12314-TB	1510	CARROLINEO PERO	To the second	1 /	//	DESIGNATION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	7 9	H 102, 01	OUNCE THE	No one	rest marks mile	COMP.	5
12311 110	100 March 100 (20 Sept. 120)	cardinal established	Method of Market	1		inde extrem	SOM IN	es estat p		The second of	termente sel les	Hurte)
			a se	ing and the sile	Hard of	- houses on	Star et	Contract In	sity but	Access SET	NAME AND CORNE	EAH	
Client ID: 4565	- Access Analytica	al	A COLUMN A C		1000						and an existing	ATTEN A TOTAL	
SDG: 21312			A Second	thing to	distant	Laffin CO. To	ur andre	POLICE CO.	ALC: U.S.	C SERVICE SECURITY	Contraction of the	Mon.	
Due Date: 12/17/	13		on manual or man	1000	The same	of amplitudes	V=0 = 0		o terti, ao	THE PERSON	tol oil navinos p	Tal V	
Turnaround Time:	Project Location:	Relinqu	ished By:		Re	ceived By:		Da		Time (24HR)	Samples Recid	Sample Te	тр. Проп
X Standard	X sc	Anna	w the		- Charles	torong fil		(mm-d	а-уу)	(zunn)	on Ice	Receip (°C)	
RUSH* *Date Required: (For rush work, results	NC	FEDEX	my I wa	6	rt	tok	X	1210	113	1120	N	4.900	(N/)
emailed/faxed by end of busi-	Other	8753	710102	8001	0	0	/				YN	(°C)	(N/)
ness day on date required)	(specify)										YN	(°C)	(N//
Pg of			See Reve	erse for To	erms a	nd Condi	itions				Yellow	l Copy - Returned Copy - Access File py - Client Copy	w/Report Copy

10	GCAL
10	AMALYTICAL LARGHATPHIES, LLE

SAMPLE RECEIVING CHECKLIST

			Ш		Ш	
	Ш		и		Ш	ı
*	2 1	3 1	5 -	0	5 2	*

SAMPLE DELIVERY GROUP 213121052			CHECKLIST		YES	NO	NA
Client 4565 - Access Analytical	Transport Method		Were all samples received using proper thermal preservation?		~		
	FEDEX		When used, were all custody seals intact?		4		
			Were all samples received in proper containers?		~		
Profile Number 78455	Received By Law, Brittany P.		Were all samples received using proper chemical preservation?		4		
			Was preservative added to any container at the lab?			4	
Line Manufal			Were all containers received in good condition?		4		
Line Item(s) 15 - Water BTEX/NVMTBE/1,2 DCA/Pb	Receive Date(s) 12/10/13		Were all VOA vials received with no head space?		4		
			Do all sample labels match the Chain of Custody?		4		
			Did the Chain of Custody list the sampling technician?		~		
			Was the COC maintained i.e. all signatures, dates and time of receipt included?		✓		
COOLERS			DISCREPANCIES	LAB PRESERVATIONS			
Airbill Thermometer ID: E22 Temp(°C)		None	None				
8753 9662 8026		4.9					
NOTES							

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifest

TERRY Environmental Services, Inc. Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, <u>2.75</u> gallons of petroleum contaminated purge water and/or by-products from cleaning and decontamination were processed on-site via a portable granular activated carbon (GAC) unit and released to the surface within the area of the known petroleum contamination plume December 9, 2013.

Windsor Mart
Cheraw, South Carolina
SCDHEC UST Permit # 02314





APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9

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,	X		
4	telephone number, and certification number provided?	Λ		
5	Is the name, address, telephone number, and certification number of the well			X
	driller that installed borings/monitoring wells provided?			A
6	Is the name, address, telephone number, and certification number of the certified	X		
	laboratory(ies) performing analytical analyses provided?			
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
10	Have the monitoring wells been labeled in accordance with the UST QAPP	v		
19	guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been	X		
21	provided?	Λ		
22	Has the purging methodology been detailed?	X		
22	Has the volume of water purged from each well been provided along with			
23	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
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
20	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk			v
30	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		

Item #	Item	Yes	No	N/A
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 Fig 4		X Fig 3
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MR CHARLES JACKSON JR JACKSON OIL COMPANY INC PO BOX 968 CHERAW SC 29520-0968

FEB 2 6 2014

Re:

Site Specific Work Plan Directive for Tier II Assessment

Windsor Mart, 820 Chesterfield Hwy, Cheraw, SC

UST Permit #02314

Release reported December 6, 1991

Groundwater Monitoring Report received January 13, 2014

Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) reviewed the referenced report. The report indicates presence of chemicals of concern in the groundwater and the horizontal and vertical extent of the plume is not defined.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, a Tier II Assessment as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0 is necessary. The Tier II Assessment must be conducted in accordance with the UST QAPP and in compliance with all applicable regulations.

Your contractor must complete and submit the Site Specific Work Plan and Cost Agreement within thirty (30) days of the date of this letter. The Site Specific Work Plan form is available on-line at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm. Please note that approval from the Agency must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #02314. If you have questions or need additional information, feel free to call me at (803) 898-7542, e-mail me at hornosms@dhec.sc.gov, or fax me at (803) 898-0673.

Sincerely,

Minda Hornosky, Hydrogeologist

Assessment Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484

Technical File



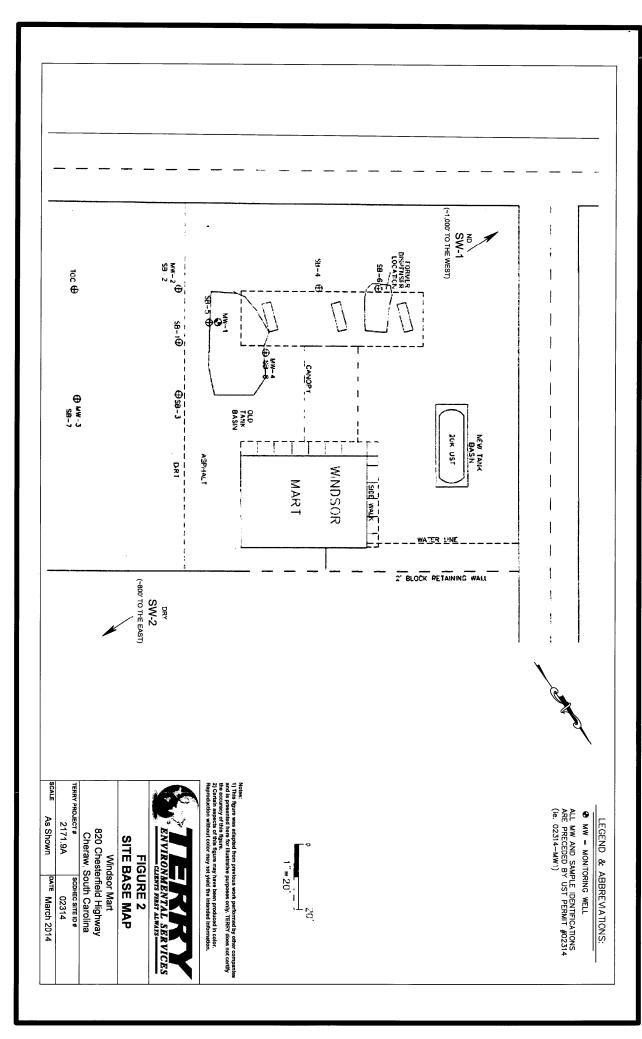
Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

MAR 3 1 2014

POGRAM

To: Minda Hornosky From: Kelly Cone			CDHEC Project Manager)			
Contractor: Terry Environmental Services UST Contractor Certification Number: UCC-0223						
Facility Name: Windsor Mart						
Facility Address: 820 Chesterfie		OST Femilit#.	<u>02314</u>			
Responsible Party: Jackson Oil	_	Phone: 843-5	37-7080			
RP Address: PO Box 968, Chera			- 10 8 HU			
Property Owner (if different):	v/a		100			
Property Owner Address: n/a			CAET			
Current Use of Property: Gas S	Station and Convenience Store (Corr	ner Cupboard)				
Scope of Work (Please check	all that apply)					
☐ IGWA Z Tier	r II	☐ Groundwater Sampling	□ GAC			
☐ Tier I ☐ Mor	nitoring Well Installation	□ Other				
Analyses (Please check all tha	at 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	Dissolved Holl			
Soil:	•					
☐ BTEXN	☐ 8 RCRA Metals	☐ TPH-DRO (3550B/8015B)	☑ Grain Size			
□ PAH	☐ Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	☐ TOC			
Air:	_ 0 a. 0.0000 (007.1)	= 1111-61(0 (0000B/0010B)	L 10C			
□ BTEXN						
Sample Collection (Estimate t	the number of samples of each m	natrix that are expected to be co	llected \			
2 Soil	Water Supply Wel		2 Field Blank			
21 Monitoring Wells	2 Surface Water		2 Trip Blank			
		Duplicate	Trip blank			
Field Screening Methodology						
Estimate number and total com	pleted depth for each point, and i	include their proposed locations	on the attached map.			
# of shallow points proposed: 1			feet per point			
# of deep points proposed: 3		nated Footage: 55 (165' Total)	feet per point			
Field Screening Methodology:	Groundwater samples will be collected	ed via a Geoprobe direct-push techr	nology (DPT) rig			
Permanent Monitoring Wells						
	pleted depth for each well, and in	actude their proposed locations	on the attached man			
		Footage: 20 (280' Total)				
" * 1 " 2 " — — — — — — — — — — — — — — — — —	Estimated	Footage: 55 (165' Total)				
· · · · · · · · · · · · · · · · · · ·	Estimated					
Monitoring Well development m	ethod (consistent with SOP): pur	nn and surge	feet per point			
Comments, if warranted:	etriod (consistent with SOF). Pur	np und dange				
•	collected from the screened interval	of one proposed shallow well and	one proposed deep wall			
During drilling a soil sample will be collected from the screened interval of one proposed shallow well and one proposed deep well for grain size analysis.						
			A P D F S			

Implementation Schedule (Number of calendar days from approval) Field Work Start-Up: May 2014 Field Work Completion: June 2014	
Report Submittal: July 2014 # of Copies Provided to Property Owners: n/a	_
Aquifer Characterization Pump Test: □ Slug Test: □ (Check one and provide explanation below for choice) Slug tests are proposed on two shallow wells and one deep well located down gradient of the source area.	
Investigation Derived Waste Disposal Soil: 10 Tons Purge Water: 300 Gallons Drilling Fluids: 220 Gallons Free-Phase Product:	_
Additional Details For This Scope of Work For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc. This assessment will include a tax map, comprehensive survey, slug testing (2 shallow wells and 1 deep well), and comprehensive sampling event. The existing monitoring wells (MW-1 through MW-4), 17 proposed MWs (14 shallow/3 deep), and 2 surface water features will be sampled.	
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 Attach a copy of the relevant portion of the USGS topographic map showing the site location. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:	





LEGEND & ABBREVIATIONS:

- Existing Monitoring Well
- Shallow Groundwater Boring
- Deep Groundwater Boring
- Proposed Deep Monitoring Well Proposed Shallow Monitoring Well
- Groundwater Flow (Dec. 9, 2013 Data)
- FP = Free Product (feet)

Data Collected December 9, 2013 CNF = Could Not Find

All MW and sample identifications are preceded by UST Permit #02314 (ie. 02314-MW 1)







TIER II PROPOSAL MAP FIGURE

Windsor Mart

As Shown 820 Chesterfield Highway
Cheraw, South Carolina DATE March 2014 02314

DHE C

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
November 1, 2013

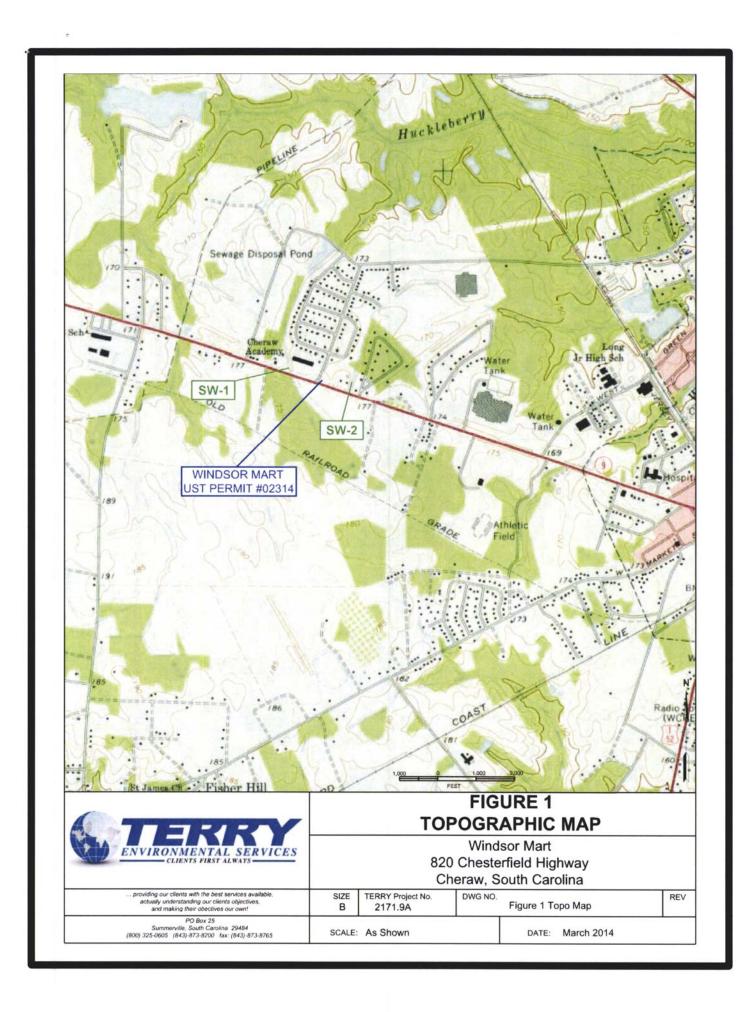
Facility Name: Windsor Mart

			_		
UST Permit #: 02314	02314 Cost Agreement #: Propos		Proposal	_	
ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. Plan Preparation					
A1. Site-specific Work Plan	1	each	\$150.00		\$150.00
B1. Tax Map	1	each	\$70.00		\$70.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00		\$0.00
2. A1. Receptor Survey *		each	\$551.00		\$0.00
3. Survey (500 ft x 500 ft)					
A1. Comprehensive Survey	1	each	\$1,040.00		\$1,040.00
B. Subsurface Geophysical Survey					
1B. < 10 meters below grade		each	\$1,300.00		\$0.00
2B. > 10 meters below grade	į	each	\$2,310.00		\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00		\$0.00
4. Mob/Demob					
A1. Equipment (6, 9)	2	each	\$1,020.00		\$2,040.00
B1. Personnel (1-B1,6,9,10,17)	5	each	\$423.00		\$2,115.00
C1. Adverse Terrain Vehicle		each	\$500.00		\$0.00
5. A1. Soil Borings (hand auger)*		foot	\$5.00		\$0.00
6. Soil Borings (requiring equipment, push techno	ology, etc)* or				* ****
Field Screening (including water ssample, soil	sample, soil ga	ıs sample, etc.)*		
A1. Standard	445	per foot	\$7.40	100 m	\$3,293.00
C1. Fractured Rock		per foot	\$20.20		\$0.00
7. A1. Soil Leachability Model		each	\$60.00	oli yddi.	\$0.00
8. Abandonment (per foot)*		İ			
A1. 2" diameter or less	445	per foot	\$3.10		\$1,379.50
B1. Greater than 2" to 6" diameter		per foot	\$4.50		\$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00		\$0.00
9. Well Installation (per foot)*		<u> </u>			
A1. Water Table (hand augered)		per foot	\$10.60		\$0.00
B1. Water Table (drill rig)	280	per foot	\$38.00		\$10,640.00
C1. Telescoping	165	per foot	\$31.80		\$5,247.00
D1. Rock Drilling		per foot	\$26.80		\$0.00
E1. 2" Rock Coring		per foot	\$30.90		\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$33.40		\$0.00
H1. Recovery Well (4" diameter)	1	per foot	\$30.00		\$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00		\$0.00
J1. Rotosonic (2" diameter)		per foot	\$44.00		\$0.00
K. Re-develop Existing Well		per foot	\$11.00		\$0.00
10. Groundwater Sample Collection / Gauge Dept	h to Water or F	Product *			*****
A1. Groundwater Purge	21	per well/recepto	\$60.00		\$1,260.00
B1. Air or Vapors		per receptor	\$12.00		\$0.00
C1. Water Supply		per well/recepto			\$0.00
D1. Groundwater NP, SW (2) or Dup (2)	4	per well/recepto		W	\$112.00
E1. Gauge Well only		per well	\$7.00		\$0.00
F1. Sample Below Product		per well	\$12.00		\$0.00
G1. Passive Diffusion Bag		each	\$26.00	扫描	\$0.00
H1. Field Blank	2	each	\$24.60		\$49.20
TITLE FOR STATE		Gaoil	Ψ24.00	11/2	Ψ 13 .20

11. Laboratory Analyses-Groundwater					1 4
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	29	per sample	\$122.00		\$3,538.00
AA1. Lead. Filtered		per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00 \$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0.00 \$0.00
D1. PAH's		per sample	\$60.60		\$0.00
E1. Lead		per sample	· ·		
F1. EDB by EPA 8011			\$16.00		\$0.00
FF1. EDB by EPA Method 8011 Rush		per sample	\$45.20		\$0.00
G1. 8 RCRA Metals		per sample	\$68.20		\$0.00
H1. TPH (9070)		per sample	\$63.40		\$0.00
II. pH		per sample	\$41.00		\$0.00
J1. BOD		per sample	\$5.20		\$0.00
PP. Ethanol		per sample	\$20.00		\$0.00
11. Analyses-Soil		per sample	\$14.80		\$0.00
1 · · · · · · · · · · · · · · · · · · ·					
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's	İ	per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer	2	per sample	\$104.00		\$208.00
X1. Total Organic Carbon		per sample	\$30.60		\$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	\$216.00		\$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*	3	per test	\$191.00		\$573.00
C1. Fractured Rock		per test	\$100.00		\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00		\$0.00
14. Fate/Transport Modeling	• "				
A1. Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*		each	\$260.00		\$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	300	gallon	\$0.56		\$168.00
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal	10	ton	\$60.00		\$600.00
D1. Drilling fluids	220	gallon	\$0.42		\$92.40
18. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard	¥ 212 0	X1	\$0.00
21. IGWA (Use DHEC 3666 form)		standard		11'39 'Y	\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			\$0.00
		TIFUIU			ΦU.UU

23. Aggressive Fluid & Vapor Recovery (AFVR)	_	·		8.424	ra(
			.		
A1. 8-hour Event*		each	\$1,375.00		\$0.00
A2. 24-hour Event*		each	\$3,515.00		\$0.00
A3. 48-hour Event*		each	\$6,265.00		\$0.00
A4. 96-hour Event*		each	\$12,567.50		\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50		\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50		\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00		\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00		\$0.00
D. Site Reconnaissance		each	\$203.25		\$0.00
E1. Additional Hook-ups		each	\$25.75		\$0.00
F. Effluent Disposal		gallon	\$0.30		\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50		\$0.00
24. Granulated Activated Carbon (GAC) filter system	n installation	& service:			
A1. New GAC System Installation*		each	\$1,900.00		\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00		\$0.00
C1. Filter replacement/removal*		each	\$350.00	*	\$0.00
DD. GAC System removal, cleaning, & refurbishmen	nt*	each	\$275.00		\$0.00
E1. GAC System housing*		each	\$250.00		\$0.00
F. In-line particulate filter	ļ	each	\$150.00		\$0.00
G1. Additional piping & fittings		foot	\$1.50		\$0.00
25. Well Repair					
A1. Additional Copies of the Report Delivered		each	\$50.00		\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00		\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00		\$0.00
D1. Repair well vault*		each	\$118.00		\$0.00
F1. Replace well cover bolts		each	\$2.60		\$0.00
G. Replace locking well cap & lock		each	\$15.00		\$0.00
H1. Replace/Repair stick-up*		each	\$134.00		\$0.00
Ii. Convert Flush-mount to Stick-up*		each	\$150.00		\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00		\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00		\$0.00
Report Prep & Project Management	10%	percent	\$32,575.10		\$3,257.51
TOTAL		<u> </u>		* 1.7	\$35,832.61
				103111111111	

^{*}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

MAY 1 3 2014

MR CHARLES JACKSON JR JACKSON OIL COMPANY INC PO BOX 968 CHERAW SC 29520-0968

Re: Tier II Assessment Directive

Windsor Mart, 820 Chesterfield Hwy, Cheraw, SC UST Permit #02314; CA # 47515; MWA #UMW-25497

Release Reported December 6, 1991

Site Specific Work Plan received March 31, 2014

Chesterfield County



Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division has reviewed the referenced Site Specific Work Plan submitted by Terry Environmental Services, on your behalf. In accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, to determine what risk the referenced release may pose to human health and the environment, additional assessment is required to define the vertical and horizontal extent of the plume.

Assessment activities at the site should begin immediately upon receipt of this letter. Monitoring wells should be installed in the proposed locations to monitor and define the extent of the chemicals of concern. The Site-Specific Work Plan is approved. Samples from all monitoring wells associated with the release should be collected and analyzed for BTEX, naphthalene, 8 oxygenates, MTBE, ethanol, and 1,2- DCA in accordance with the UST QAPP Rev. 2.0, Appendix E. A copy of this publication is available online at http://www.scdhec.gov/environment/lwm/ usthome/Qapp.htm. Also, a groundwater sample from each water supply well located within 1,000 feet of the UST system must be collected and analyzed for BTEX, naphthalene, 8 oxygenates, ethanol, and 1,2-DCA. Because of unnecessary dilution, the Division cannot make decisions if the reporting limit of individual petroleum chemicals exceeds Risk-Based Screening Levels (RBSLs). To determine the appropriate action for a release, the Division encourages the use of 'J' values.

The Assessment Report and contractor checklist are due within 90 days of the date of this letter. According to R.61-98 Section IV.C.1, site rehabilitation activities must be performed by an Agency-certified site rehabilitation contractor and all plans, reports, invoices, and other documents relating to site rehabilitation activities which have been prepared or approved by a certified contractor shall be signed by the certified contractor and bear his certification number.

Cost agreement number 47515 has been approved for the amount shown on the enclosed cost agreement. The report (a signed .pdf copy on CD is preferred) should include the following:

- Geological cross sections that include the shallow and deep monitoring wells. The percentage
 of sand, silt, and clay should be shown for the screen intervals of the newly installed shallow
 and deep well pair.
- Tax map information for this and all adjacent properties.
- Boring logs and well logs (DHEC 1903 form) signed by a well driller licensed in the state of South Carolina for each new temporary or permanent monitoring well in accordance with the South Carolina Well Standards, R.61-71. DHEC 1903 forms are required for field screening borings (whether direct push or drilled) where a sample is extracted for analysis.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- The percentage of sand, silt, and clay from the screen interval of the down gradient shallow and deep well pair.
- Groundwater elevations, top of casing elevation, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Division, shall be presented in tabular format. Historical groundwater laboratory analytical data and depth to groundwater, and product if applicable, for this and all previous monitoring events for all monitoring wells shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data. A second contour map will be necessary if three or more deep wells are installed.
- Manifests for contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.
- According to R.61-98 Section IV.C.1 all plans, reports, invoices, and other documents
 relating to site rehabilitation activities which have been prepared or approved by a certified
 contractor shall be signed by the certified contractor and bear his certification number.

The 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. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If concentrations, based on laboratory analysis, are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site.

Terry Environmental Services can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. An interim well drilling invoice may be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

On all correspondence regarding this site, please reference UST permit number 02314. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-7542. I can also be reached by email at hornosms@dhec.sc.gov or by fax at (803) 898-0673.

Sincerely,

Minda Hornosky, Hydrogeologist

Assessment Section, Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved Cost Agreement

Monitoring Well Approval

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc.)

Technical file (w/enc)



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

Monitoring Well Approval

Approval is hereby granted to: Terry Environmental Services

On Behalf Of: Jackson Oil Company

Facility: Windsor Mart, 820 Chesterfield Hwy

Approval #: UMW-25497

Cheraw, SC

UST Permit Number: 02314

County: Chesterfield

This approval is for the installation of 17 temporary and 17 (14 shallow and 3 deep) permanent ground water monitoring wells. The monitoring wells are to be installed in the approved locations following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

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

- 1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
- 2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
- 3. A Water Well Record Form or other form provided or approved by the 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 "asbuilt" 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 Division as required by R.61-71.H.1.d.
- 5. If any of the information provided to the Agency changes, notification to Minda Hornosky, the project manager (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 23, 2014

Minda Hornosky, Hydrogeologist

Assessment Section

Division of UST Management

Bureau of Land and Waste Management

Approved Cost Agreement 47515

Facility: 02314 WINDSOR MART

HORNOSMS PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
01 PLAN				•
	A1 SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
	B1 TAX MAP	1.0000	70.00	70.00
03 COMPREHENSIVE SURVEY				
	A1 COMPREHENSIVE SURVEY	1.0000	1,040.00	1,040.00
04 MOB/DEMOB				
	A1 EQUIPMENT	2.0000	1,020.00	2,040.00
	B1 PERSONNEL	5.0000	423.00	2,115.00
06 SOIL BORINGS (DRILLED)				
	A1 SOIL BORING/FLD SCR. STANDARD	445.0000	7.40	3,293.00
08 ABANDONMENT				
	A1 ABANDONMENT 2" DIA OR LESS	445.0000	3.10	1,379.50
09 WELL INSTALLATION		***		
	B1 WATER TABLE (DRILL RIG)	280.0000	38.00	10,640.00
	C1 TELESCOPING	165.0000	31.80	5,247.00
10 SAMPLE COLLECTION				
	A1 GROUNDWATER (PURGE)	21.0000	60.00	1,260.00
	D1 GROUNDWATER NO PURGE/DUPLICATE	4.0000	28.00	112.00
	H1 FIELD BLANK	2.0000	24.60	49.20
11 ANALYSES				· · · · · · · · · · · · · · · · · · ·
GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	29.0000	122.00	3,538.00
SOIL SOIL	W1 GRAIN SIZE / HYDROMETER	2.0000	104.00	208.00
12 AQUIFER CHARACTERIZATION				
	B1 SLUG TEST	3.0000	191.00	573.00
17 DISPOSAL		0.000		070.00
	AA WASTEWATER	300.0000	0.56	168.00
	C1 SOIL TREATMENT DISPOSAL	10.0000	60.00	600.00
	D1 DRILLING FLUIDS	220.0000	0.42	92.40
9 RPT/PROJECT MNGT & COORDINATIO				
	PERC REPORT PREPARATION	0.1000	32,575.10	3,257.51
		Total Amor	ınt	35,832.61

May 13, 2014

Document Receipt Information

Hard Copy	CD CD	Email
	A	
Date Received	3-13-2013	5
Permit Number	02314	/
Project Manager	Minda H	brnos Ky
Name of Contractor	Minda H TERRY ENV	ronmental
USI Certification Number		
Docket Number	10 tech	

Scanned

TIER II Assessment Report

TIER II ASSESSMENT REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #47515

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9A

Tim Mettlen, PG Project Manager

MAAAM

Jason A. Terry, PG

President

MARCH 2015



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Charles Jackson)

Owner/ Operator Address: PO Box 968, Cheraw, South Carolina 29520

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company, Inc.

Address: PO Box 968, Cheraw, South Carolina 29520

Telephone: 843-873-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 UCC-0223

4. Well Driller Information

Name: Terry Exploration Services, LLC

Address: 398 East 5th North Street, Suite D, Summerville, South Carolina 29485

Telephone: 843-873-8200

Certification: John S. Kerr (2128-D)

Name: Geologic Exploration Services, Inc.

Address: 176 Commerce Blvd., Statesville, North Carolina 28625

Telephone: 704-872-7686

Certification: Johnny Burr (1740-C)

5. Laboratory Information

Name: Shealy Environmental Services Inc. (Shealy)

Address: 106 Vantage Point Drive, Columbia, SC 29172

Telephone: 803-791-9700

Certification: 32010

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	

Other Releases at this site? Yes		No	XXXX	
If yes, Date Release Reported to SCDHEC	n/a	_		
Status of Release:	n/a			
No Further Action Date:	n/a			

7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)

B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work. However, based on the USGS topographic map there are two drainage features located approximately 800 to 1,000 feet to the east and west of the subject site.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1,000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

Off-site access agreements were required to complete this scope of work. A copy of the signed access agreements obtained by TERRY are included in Appendix J. A SCDOT Encroachment Permit was required to complete this scope of work. A copy of the approved Encroachment Permit from Chesterfield County is included in Appendix J.

3. Site-Specific Geology and Hydrogeology

Site-specific stratigraphy generally consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. The Site Potentiometric Maps (Figures 5A and 5B) are included in Section J. Based on the shallow groundwater data the flow is generally to the north-northwest. Based on the deep groundwater data the flow is generally to the north-northwest as well.

C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

1. Soil Type & Field Screening Results

The uppermost soil unit consists of sandy clay and clay. This is underlain by sand and clayey silt in the deep wells. Soil contamination was not assessed during this scope of work. However, the groundwater contamination was assessed during the groundwater field delineation activities conducted during this event.

2. Soil Sampling Methodology

During well installation, a soil sample was collected via a split-spoon sampler from MW-9 at approximately 15 feet bgs. A sample was also collected from DW-1 at a depth of 52 ft bgs. A sieve analysis for gravel, silt, sand, and clay fraction was performed in accordance with ASTM D422. The Grain Size Distribution results indicated that the soil sample from MW-9 was comprised of 69.6% Sand, 19.7% Silt, and 10.7% Clay. The Grain Size Distribution results from DW-1 was comprised of 4.5% gravel, 70.3% Sand, 14.4% Silt, and 10.8% Clay. The Soil Analytical Data are provided in Appendix B.

3. Field Screening Methodology

Between July 14 and July 16, 2014 seventeen (17) GeoprobeTM groundwater borings totaling 444 feet were performed using direct-push GeoprobeTM machinery (SB-1 through SB-14, SB-1D through SB-3D).

Each boring was conducted by pushing/hammering a four (4) foot long groundwater sampler into the subsurface. Once the termination depth was reached the rods were retracted approximately 4 feet and the stainless steel screen was exposed. A groundwater sample was taken from each of the shallow borings (SB-1 through SB-14) at or near the probe's terminal depth and from each interval of the deep borings (SB-1D through SB-3D) and field screened for contaminants. Twenty-three (23) of the samples were submitted to a SCDHEC certified laboratory for confirmation analyses. Soil Boring Logs are provided in Appendix D. A Groundwater Field Delineation Map indicating field screening locations and associated groundwater analytical results is provided in Section J as Figure 4A. Groundwater Field Delineation Data are provided in Appendix B and are summarized as follows:



SECTION C-3 GROUNDWATER FIELD DELINEATION DATA WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

		Total	Depth		Field	ANALYTICAL LABORATORY DATA					
Boring Number	Matrix	Depth	Sample	Date	Screening			PARAN	IETERS		
(3)		(ft.)	Taken (ft.)	Performed	Depth (ft.)	Benzene	Toluene	Ethyl.	Xylenes	Napth.	MTBE
			(4.1.)		()	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
02314-SB1	WATER	19	19	7/14/2014	15-19	0.24J	0.33J	<1.0	<1.0	<1.0	<1.0
02314-SB2	WATER	20	20	7/14/2014	16-20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
02314-SB3	WATER	20	20	7/14/2014	16-20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
02314-SB4	WATER	20	20	7/14/2014	16-20	32	26	2.4	100	3.9	<1.0
02314-SB5	WATER	20	20	7/14/2014	16-20	360	320	49	1,100	39	< 5.0
02314-SB6	WATER	20	20	7/14/2014	16-20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
02314-SB7	WATER	20	20	7/14/2014	16-20	0.42J	0.82J	<1.0	<1.0	<1.0	<1.0
02314-SB8	WATER	20	20	7/14/2014	16-20	5,300	10,000	800	3,300	140	160
02314-SB9	WATER	20	20	7/14/2014	16-20	850	96	7.7	790	25	< 5.0
02314-SB10	WATER	20	20	7/14/2014	16-20	0.19J	0.49J	<1.0	<1.0	<1.0	<1.0
02314-SB11	WATER	20	20	7/16/2014	16-20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
02314-SB12	WATER	20	20	7/16/2014	16-20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
02314-SB13	WATER	20	20	7/16/2014	16-20	160	440	29	110	4.8J	< 5.0
02314-SB14	WATER	20	20	7/16/2014	16-20	1,300	1,400	130	1,400	39	<20
02314-SB1D45	WATER	3	45	7/16/2014	41-45	0.44J	2.6	<1.0	1.4	<1.0	<1.0
02314-SB1D50	WATER		50	7/16/2014	46-50	4.8	18	1.2	4.9	<1.0	<1.0
02314-SB1D55	WATER	55	55	7/16/2014	51-55	7.2	27	1.8	7.6	<1.0	<1.0
02314-SB2D45	WATER		45	7/16/2014	41-45	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
02314-SB2D50	WATER		50	7/16/2014	46-50	0.13J	0.36J	<1.0	<1.0	<1.0	<1.0
02314-SB2D55	WATER	55	55	7/16/2014	51-55	<1.0	0.33J	<1.0	<1.0	<1.0	<1.0
02314-SB3D45	WATER		45	7/16/2014	41-45	21	30	2.1	8.4	<1.0	<1.0
02314-SB3D50	WATER		50	7/16/2014	46-50	48	85	5.2	25	<1.0	0.89J
02314-SB3D55	WATER	55	55	7/16/2014	51-55	34	54	2.9	13	<1.0	0.55J
		444	TOTAL	BORING F	OOTAGE						
GW RBSL	_	_	-	_	_	5	1,000	700	10,000	25	40

NOTES:

ug/l MICROGRAMS PER LITER (PARTS PER BILLION)

J ESTIMATED RESULT < PQL AND \ge MDL

32 BOLD INDICATES VALUE EXCEEDS RBSL

GW RBSL UNITS ARE IN UG/L



D. MONITORING WELL INFORMATION

1. Well Installation Details

Based on the field screening results, monitoring well locations were proposed and subsequently approved by the interim SCDHEC UST Project Manager in September 2014. Between September 24, 2014 and September 25, 2014, twelve (12) shallow monitoring wells (MW-2R, MW-5 through MW-15), and one (1) telescoping deep monitoring well (DW-1) were installed and developed by Geologic Exploration. Five (5) off-site wells (MW-16 through MW-20) were installed by Terry Exploration between November 4, 2014 and November 8, 2014. Additional off-site wells, seven (7) shallow (MW-21 through MW-27) and two (2) deep (DW-2 and DW-3) were installed by Terry Exploration between January 27, 2015 and January 30, 2015. The shallow wells and the single-cased deep wells were installed using hollow stem auger (HSA) techniques and the telescoping deep wells were installed using a combination of HSA and mud rotary techniques. All well installations were performed in accordance with the S.C. Well Standards and Regulations. Well Construction Logs are provided in Appendix E. A Geologic Transect Map is provided in Section J as Figure 6A, and the associated Geologic Cross Sections (A-A' and B-B') are provided in Section J as Figures 6B and 6C, respectively. The soil cuttings and well drilling fluids were initially stored in 55-gallon drums onsite and were properly disposed of by JBR Environmental Services on December 10, 2014 and HERR, Inc. on February 16, 2015. The disposal manifests are provided in Appendix G.

2. Well Development Procedures

A clean purge pump with new, disposable tubing was utilized for developing the newly installed monitoring wells. Development was considered complete once enough drilling mud and/or fluids were removed to provide relatively sediment-free groundwater that appeared typical of the aquifer. The well development water generated was disposed of via processing through a granular-activated-carbon (GAC) unit in accordance with the NPDES General Permit No. SCG830000. The Certificates of On-Site Treatment for the contaminated development water is provided in Appendix G.

3. Well Location Justification

The shallow monitoring wells (MW-2R, MW-5 through MW-27) were installed to horizontally delineate the contaminant plume. The deep monitoring wells (DW-1, DW-2 & DW-3) were installed to delineate the vertical migration of the contaminant plume. The new wells will also provide future access for monitoring the plume migration.



E. GROUNDWATER DATA

1. Groundwater Sampling Methodology

TERRY conducted groundwater sampling events on September 26 and 29, 2014, November 6, 2014, November 19, 2014, and February 2, 2015. Just prior to the sampling events, monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging monitoring wells with an adequate casing volume. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs).

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 2.0. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for the sampling event and analyzed for VOCs and 1,2-Dibromoethane (EDB). One field duplicate was collected for each batch of twenty samples and analyzed for VOCs, EDB, and Lead.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 2.0 and the site-specific Addendum. At the completion of the sampling events, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl Tertiary Butyl Ether, 1,2-Dichloroethane, Oxygenates, Ethanol, EDB, and Lead.

Field conditions were documented throughout the sampling events. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 2.0. By-products were disposed of via processing through a granular-activated-carbon (GAC) unit in accordance with the NPDES General Permit No. SCG830000. The field measurement equipment was properly calibrated prior to the sampling events and verified after four (4) hours of use and at the completion of the events. The calibration data for the sampling events are provided in Appendix B.



Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B.

2. Purging Methodology

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous sampling data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. For monitoring wells with smaller casing volumes, a new disposable bailer was utilized for purging. When utilized, bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the VOCs. In accordance with the SCDHEC UST QAPP, Revision 2.0, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was disposed of via processing through a granular-activated-carbon (GAC) unit in accordance with the NPDES General Permit No. SCG830000. The Certificates of On-Site Treatment for the contaminated purge water and the by-products from cleaning and decontamination is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 2.0. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling events for the purged wells are provided as follows:



SECTION E -2 GROUNDWATER MEASUREMENTS (PURGE SAMPLING) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314							
02314-MW1	9/26/2014				A1 - 5		
			F	ree Product (2.78	ft.)		
02314-MW2	9/29/2014			Could Not Find			
02314-MW2R	9/29/2014			Could Not Filld			
Volume (gal)	Initial	0.5	1.0	1.5/Sample	Duplicate (DUP)		
Time (military)	1340	1342	1346	1350	1352		
pH (su)	4.47	4.81	4.77	4.80	1332		
Spec Conductivity (mS/cm)	0.077	0.059	0.059	0.061			
Water Temperature (°C)	21.7	21.9	21.9	21.9			
Turbidity (NTU)	19.3	121	132	135			
Dissolved Oxygen (mg/L)	3.15	4.17	3.27	2.89			
02314-MW3	9/26/2014						
	2,20,201		F	ree Product (0.95	ft.)		
02314-MW4	9/26/2014						
			F	ree Product (3.11	ft.)		
02314-MW5	9/29/2014						
Volume (gal)	Initial	0.25	0.5	0.75/Sample			
Time (military)	1546	1549	1556	1600			
pH (su)	4.40	4.64	4.60	4.55			
Spec Conductivity (mS/cm)	0.051	0.053	0.053	0.052			
Water Temperature (°C)	20.9	21.1	21.1	21.1			
Turbidity (NTU)	152	446	469	471			
Dissolved Oxygen (mg/L)	7.30	6.19	3.82	5.12			
02314-MW6	9/29/2014						
Volume (gal)	Initial	0.5	1.0	1.5/Sample			
Time (military)	1300	1303	1309	1315			
pH (su)	5.05	5.42	5.47	5.48			
Spec Conductivity (mS/cm)	0.081	0.091	0.095	0.097			
Water Temperature (°C)	21.9	22.4	22.4	22.4			
Turbidity (NTU)	347	289	311	313			
Dissolved Oxygen (mg/L)	8.79	9.39	6.41	5.82			
02314-MW7	9/29/2014						
			F	ree Product (0.23	ft.)		
02314-MW8	9/29/2014		VG.				
Volume (gal)	Initial	0.5	1.0	1.5/Sample			
Time (military)	1420	1423	1428	1435			
pH (su)	4.78	4.82	4.85	4.88			
Spec Conductivity (mS/cm)	0.070	0.070	0.071	0.073			
Water Temperature (°C)	21.3	21.8	21.8	21.8			
Turbidity (NTU)	111	352	358	345			
Dissolved Oxygen (mg/L)	8.27	6.46	8.14	4.21			
02314-MW9	9/29/2014		90.5	1.5/6	1		
Volume (gal)	Initial	0.5	1.0	1.5/Sample			
Time (military)	1617	1620	1624	1628	 		
pH (su)	4.38	4.47	4.50	4.44			
Spec Conductivity (mS/cm)	0.110	0.114	0.115	0.115			
Water Temperature (°C)	21.4	20.5	20.5	20.5			
Turbidity (NTU)	88.6	616	589	571			
Dissolved Oxygen (mg/L)	3.97	4.92	5.11	4.70			

02314-MW10	9/29/2014					
Volume (gal)	Initial	0.75	1.5	2.25/Sample		
Time (military)	1605	1610	1613	1615		
pH (su)	4.65	4.77	4.70	4.69		
Spec Conductivity (mS/cm)	0.095	0.105	0.104	0.102		
Water Temperature (°C)	20.9	21.6	21.6	21.6		
Turbidity (NTU)	172	601	586	559		
Dissolved Oxygen (mg/L)	6.77	8.11	9.70	7.85		
02314-MW11	9/29/2014					
Volume (gal)	Initial	0.75	1.5	2.25/Sample		
Time (military)	1147	1152	1159	1210		
pH (su)	5.31	6.22	6.24	6.19		
Spec Conductivity (mS/cm)	0.108	0.122	0.124	0.124		
Water Temperature (°C)	22.0	21.7	21.7	21.7		
Turbidity (NTU)	46.4	117	111	121		
Dissolved Oxygen (mg/L)	9.02	7.61	8.19	8.02		
02314-MW12	9/29/2014					
Volume (gal)	Initial	0.75	1.5	2.25/Sample		
Time (military)	1220	1230	1237	1243		
pH (su)	4.63	5.10	5.06	5.01		
Spec Conductivity (mS/cm)	0.090	0.101	0.100	0.099		
Water Temperature (°C)	22.2	22.0	22.0	22.0		
Turbidity (NTU)	111	149	157	142		
Dissolved Oxygen (mg/L)	3.88	6.10	4.90	4.12		
02314-MW13	9/29/2014		XOV.			
Volume (gal)	Initial	0.5	1.0	1.5/Sample		
Time (military)	1505	1508	1513	1520		
pH (su)	4.89	5.01	5.10	5.09		
Spec Conductivity (mS/cm)	0.101	0.111	0.112	0.113		
Water Temperature (°C)	21.4	21.9	21.9	21.9		
Turbidity (NTU)	59.3	138	141	147		
Dissolved Oxygen (mg/L)	7.67	5.40	6.51	4.72		
02314-MW14	9/29/2014	0.75	1.5	1 225/5 1	T	
Volume (gal)	Initial	0.75	1.5	2.25/Sample		
Time (military)	1440	1443	1450	1500		
pH (su) Spec Conductivity (mS/cm)	4.71 0.046	4.67	4.62 0.050	4.64		
Water Temperature (°C)	20.1	0.047 21.8	21.8	0.051 21.8	+	
Turbidity (NTU)	43.2	103	107	114	+	
Dissolved Oxygen (mg/L)	4.66	4.71	4.47	3.86		
02314-MW15	9/29/2014	4.71	4.47	3.80		
Volume (gal)	Initial	0.5	1.0	1.5/Sample		
Time (military)	1320	1322	1327	1333	+	
pH (su)	4.68	4.48	4.52	4.55	+	
Spec Conductivity (mS/cm)	0.064	0.055	0.055	0.054	1	
Water Temperature (°C)	21.8	22.2	22.2	22.2	 	
Turbidity (NTU)	110	99.8	101	107	†	
Dissolved Oxygen (mg/L)	5.71	4.27	7.41	4.10	†	
02314-MW16	11/19/2014					
Volume (gal)	Initial	1	2	3/Sample	Duplicate (DUP)	
Time (military)	0924	0926	0928	0930	0932	
pH (su)	5.43	4.61	4.55	4.52	1	
Spec Conductivity (mS/cm)	0.130	0.099	0.097	0.095	 	
Water Temperature (°C)	19.3	18.4	18.4	18.4		
Turbidity (NTU)	232	374	389	386		
Dissolved Oxygen (mg/L)	6.35	5.02	4.31	4.29		
02314-MW17	11/6/2014					
			Insuffic	cient Volume for P	arameters	
				_		

02314-MW18	11/6/2014						
Volume (gal)	Initial	1	2	3/Sample			
Time (military)	1650	1652	1654	1656			
pH (su)	4.29	4.32	4.37	4.35			
Spec Conductivity (mS/cm)	0.194	0.094	0.092	0.088			
Water Temperature (°C)	23.2	23.1	23.1	23.1			
Turbidity (NTU)	347	411	448	463			
Dissolved Oxygen (mg/L)	3.68	4.10	4.09	4.04		j	
02314-MW19	11/6/2014		A10				
Volume (gal)	Initial	1	2	3/Sample	Duplicate (DUP)		
Time (military)	1705	1707	1709	1711	1713		
pH (su)	4.38	4.44	4.51	4.55			
Spec Conductivity (mS/cm)	0.159	0.166	0.161	0.159			
Water Temperature (°C)	24.1	23.8	23.8	23.8			
Turbidity (NTU)	142	322	318	328			
Dissolved Oxygen (mg/L)	2.51	1.35	2.76	2.65			
02314-MW20	11/6/2014						
Volume (gal)	Initial	1	2	3/Sample			
Time (military)	1724	1726	1728	1730			
pH (su)	4.76	4.49	4.53	4.44			
Spec Conductivity (mS/cm)	0.150	0.133	0.134	0.129			
Water Temperature (°C)	24.3	24.2	24.2	24.2			
Turbidity (NTU)	202	398	422	431			
Dissolved Oxygen (mg/L)	2.99	3.22	3.26	3.29			
02314-MW21	2/2/2015						
Volume (gal)	Initial	1.25	2.50	3.75/Sample			
Time (military)	1807	1810	1813	1816			
pH (su)	7.10	6.04	6.05	6.01			
Spec Conductivity (mS/cm)	0.109	0.111	0.112	0.114			
Water Temperature (°C)	19.0	20.1	20.1	20.1			
Turbidity (NTU)	79.2	515	506	496			
Dissolved Oxygen (mg/L)	3.01	5.02	4.22	4.19			
02314-MW22	2/2/2015						
Volume (gal)	Initial	1.25	2.50	3.75/Sample			
Time (military)	1735	1738	1741	1744			
pH (su)	5.36	4.77	4.71	4.69			
Spec Conductivity (mS/cm)	0.091	0.086	0.082	0.080			
Water Temperature (°C)	18.6	20.0	20.0	20.0	ļ		
Turbidity (NTU)	92.0	411	428	433			
Dissolved Oxygen (mg/L)	8.53	7.14	6.29	5.83			
02314-MW23	901 O 2007 CT 107 - 109	2/2/2015					
Volume (gal)	Initial	1.25	2.50	3.75/Sample			
Time (military)	1751	1854	1757	1800			
pH (su)	4.82	4.70	4.66	4.62			
Spec Conductivity (mS/cm)	0.054	0.046	0.044	0.045			
Water Temperature (°C)	18.7	19.4	19.4	19.4			
Turbidity (NTU)	80.1	373	384	392			
Dissolved Oxygen (mg/L)	3.04	2.93	2.79	3.11	<u> </u>		
02314-MW24	2/2/2015						
Volume (gal)	Initial	1.5	3.0	4.5/Sample			
Time (military)	1630	1632	1635	1638			
pH (su)	7.76	6.70	6.65	6.63			
Spec Conductivity (mS/cm)	1.53	0.060	0.064	0.062			
Water Temperature (°C)	19.4	18.9	18.9	18.9			
Turbidity (NTU)	170	481	509	520	ļ		
Dissolved Oxygen (mg/L)	3.06	4.76	5.35	8.49		Į.	



02314-MW25 2/2/2015 Volume (gal) Initial 1.5 3.0 4.5/Sample Time (military) 1700 1703 1706 1709	
**/	
pH (su) 7.09 6.73 6.80 6.77	
Spec Conductivity (mS/cm) 0.100 0.081 0.083 0.083	
Water Temperature (°C) 20.7 19.7 19.7 19.7	
Turbidity (NTU) 64.7 386 399 411	
Dissolved Oxygen (mg/L) 3.02 4.12 5.00 4.56	
02314-MW26 2/2/2015	
Volume (gal) Initial 1.5 3.0 4.5/Sample	
Time (military) 1850 1854 1857 1900	
pH (su) 7.35 6.67 6.64 6.63	
Spec Conductivity (mS/cm) 0.186 0.109 0.111 0.112	
Water Temperature (°C) 18.0 19.7 19.7 19.7	
Turbidity (NTU) 42.6 319 331 322	
Dissolved Oxygen (mg/L) 3.19 4.66 4.45 3.77	
02314-MW27 2/2/2015	
Volume (gal) Initial 1.5 3.0 4.5/Sample	
Time (military) 1911 1914 1917 1920	
pH (su) 7.35 7.00 6.95 6.91	
Spec Conductivity (mS/cm) 0.202 0.166 0.160 0.164	
Water Temperature (°C) 17.7 18.4 18.4 18.4	
Turbidity (NTU) 23.8 286 301 291	
Dissolved Oxygen (mg/L) 2.11 4.90 5.13 4.07	
02314-DW1 9/29/2014	1 22 22 2
Volume (gal) Initial 3.5 7.0 10.5 14.0 17.5	21.0/Sample
Time (military) 1631 1634 1637 1640 1644 1646	1649
pH (su) 5.85 5.90 5.96 5.99 6.01 6.04	6.06
Spec Conductivity (mS/cm) 0.110 0.123 0.151 0.189 0.211 0.215 Water Temperature (°C) 21.6 20.8 20.7 20.6 20.4 20.4	0.222
	20.4
	44.1
	2.99
02314-DW2 2/2/2015 Volume (gal) Initial 2.75 5.5 8.25 11.0 13.75	16.5/Sample
Time (military) 1834 1836 1838 1840 1842 1844	1846
pH (su) 8.22 7.65 7.48 7.32 7.25 7.29	7.25
Spec Conductivity (mS/cm) 0.322 0.221 0.188 0.169 0.165 0.160	0.158
Water Temperature (°C) 18.7 19.7 19.9 18.3 18.1 18.1	18.1
Turbidity (NTU) 38.9 114 122 90.0 57.4 55.6	52.9
Dissolved Oxygen (mg/L) 3.40 4.64 4.38 3.76 3.51 2.94	2.99
Volume (gal) Duplicate (DUP)	2.55
Time (military) 1848	_
pH (su)	
Spec Conductivity (mS/cm)	
Water Temperature (°C)	
Turbidity (NTU)	
Dissolved Oxygen (mg/L)	_
02314-DW3 2/2/2015	
Volume (gal) Initial 3.0 6.0 9.0 12.0 15.0	18.0/Sample
Time (military) 1600 1602 1604 1606 1608 1610	1612
pH (su) 8.57 8.75 8.88 9.12 9.33 9.42	9.40
Spec Conductivity (mS/cm) 1.46 1.47 1.50 1.53 1.55 1.57	1.58
Water Temperature (°C) 20.2 19.8 20.4 20.6 20.6 20.6	20.6
Turbidity (NTU) 110 48.2 32.5 27.0 15.0 14.8	14.2
Dissolved Oxygen (mg/L) 2.96 4.25 5.12 3.87 4.11 3.09	4.02

NOTES/KEY:

mS/cm = milliSiemens per centimeter NTU = nephelometric turbity units mg/L = milligrams per liter

gal = gallons su = standard unit

3. Free Product Measurements

Free-phase petroleum was measured in MW-1, MW-3, MW-4 and MW-7 at thickness of 2.78 ft, 0.95 ft, 3.11 ft, and 0.23 ft respectively during the sampling event on September 26 and September 29, 2014.

F. AFVR INFORMATION

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, TERRY conducted a Tier II Assessment in accordance with the SCDHEC UST QAPP, Revision 2.0 and the associated site-specific Addendum dated March 2014 and fully executed in May 2014. The data presented herein documents the horizontal and vertical delineation of the contaminant plume and provides a contaminant concentration and migration baseline for the site.

Fourteen (14) shallow and three (3) deep direct-push groundwater borings were performed in July 2014. Samples were collected at each location and field screened. Twenty-three (23) samples were then submitted for laboratory validation. Following this, twelve (12) shallow monitoring wells and one (1) deep monitoring well were installed and sampled. Based on the results of this sampling event, an additional twelve (12) shallow wells and two (2) deep wells were installed.

Groundwater sampling events occurred on September 26 and 29, 2014, November 6, 2014, November 19, 2014, and February 2, 2015. The groundwater laboratory data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4B and 4C. Based on the analytical data, groundwater contamination is present above Risk-Based Screening Levels near the dispenser area (MW-1, MW-3, MW-4, and MW-7) which contain free product. Monitoring wells MW-2R, MW-5, MW-8, and MW-15 indicate levels above RBSLs. Offsite wells (MW-16 through MW-18) and wells MW-9 and MW-12 define the horizontal extent of the plume to the east and south. Deep well DW-1 defines the vertical extent of the plume as well. Down gradient, wells MW-13, MW-19, MW-20, and MW-23 indicate levels above RBSLs. However, monitoring wells MW-21, MW-22, MW-24, MW-25, MW-26 and MW-27 define the plume to the west and north. Deep well DW-2 was non-detect. Deep well DW-3 had a detection of benzene at 48 ug/l. This detection should be confirmed by the next sampling event.

Due to the presence of free product at the Windsor Mart site, TERRY recommends conducting Aggressive Vapor Fluid Recovery event(s) followed by a comprehensive groundwater sampling event to monitor the contamination concentrations and the plume migration.

2. Aquifer Evaluation Results

2.1 Hydraulic Conductivity & Transmissivity

On September 29, 2014 TERRY performed two (3) slug tests on monitoring wells MW-9 MW-10 and DW-1. The hydraulic conductivity (K) and transmissivity were calculated by the Bouwer-Rice graphical method. The calculated hydraulic conductivity 0.0617 ft/day for MW-9, 0.06453 ft/day for MW-10, and 0.6028 ft/day for DW-1. The calculations are provided in Appendix F.

2.2 Average Linear Flow Velocity and Hydraulic Gradient

The hydraulic gradient is calculated by dividing the change in water table elevation between two points (Δh) by the linear distance between the same two points (Δl) and then relating this change to a third point (mid-point) between the original two points. Using this method, the hydraulic gradient was calculated for the site and is provided in Appendix F. The calculated gradient for the site is:

$$MW-15$$
, $MW-21$, $MW-25 = 0.0028$ ft/ft

Linear flow velocity is then calculated using the hydraulic gradient for the site and a modified form of Darcy's equation: V=Ki/n

where: V = the average linear flow velocity (L/t) K = the hydraulic conductivity (L/t) (shallow well average) n = the estimated effective porosity (%) = 25% (assumed) i = the hydraulic gradient (L/L)

The linear flow velocity is calculated to be:

V=Ki/n V=(0.0631 ft/day)(0.0028 ft/ft)/.25 V= 0.00071 ft/day or 0.026 ft/year

This is used to represent the migration of COC through the soil towards the receptor. Aquifer calculations are provided in Appendix F on the Slug Test Summary and on the Hydraulic Gradient Map.

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Laboratory Data

Table 1 Soil Laboratory Data - Not Applicable

2. Potentiometric Data

Table 2 Groundwater Potentiometric Data - Attached

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Attached

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

TABLE 2

${\bf GROUNDWATER\ POTENTIOMETRIC\ DATA}$

WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9A

			Saveaned			Product	Water	
XX/a11 #	Sample	TOC	Screened	Depth to	Depth to		Water	
Well #	Date	Elevation (1)	Interval	Water*	Product*	Thickness	Table	
	2/10/1007	ft	ft	ft	ft	ft	ft	
02314-MW1	3/19/1997	173.28		13.70	n/a	n/a	159.58	
	6/17/1997		10 / 20	16.07	n/a	n/a	157.21	
	12/9/2013		10 to 20	20.65	17.31	3.34	152.63	
	9/26/2014	1		19.60	16.82	2.78	153.68	
	2/2/2015	<u> </u>		Free Product (1.20 ft)				
02314-MW2	6/17/1997		10 to 20	16.04	n/a	n/a	84.02	
	12/9/2013	100.06		Could Not Find				
	9/29/2014			Could Not Find				
02314-MW2R	9/29/2014	173.92	10.3-20.3	17.60	n/a	n/a	156.32	
	2/2/2015			15.72	n/a	n/a	158.20	
	6/17/1997			13.64	n/a	n/a	157.79	
02314-MW3	12/9/2013	171.43	10 to 20	15.86	n/a	n/a	155.57	
	9/26/2014			15.65	14.70	0.95	155.78	
	2/2/2015			Free Product (1.0 ft)				
	6/17/1997			15.75	n/a	n/a	157.64	
02314-MW4	12/9/2013	173.39	10 to 20	18.80	16.91	1.89	154.59	
	9/26/2014			19.43	16.32	3.11	153.96	
	2/2/2015			Free Product (0.80 ft)				
02314-MW5	9/29/2014	174.97	9.9 to19.9	18.51	n/a	n/a	156.46	
	2/2/2015	17.1157	3.3 (013.3	17.10	n/a	n/a	157.87	
02314-MW6	9/29/2014	174.57	10.1 to 20.1	18.17	n/a	n/a	156.40	
	2/2/2015	174.20		16.55	n/a	n/a	158.02	
02314-MW7	9/29/2014		10.3 to 20.3	18.09	17.86	0.23	156.11	
	2/2/2015		10.5 to 20.5			ict (0.27 ft)		
02314-MW8	9/29/2014	173.79	10.3 to 20.3	17.55	n/a	n/a	156.24	
	2/2/2015			16.11	n/a	n/a	157.68	
02314-MW9	9/29/2014	172.72	9.9 to19.9	16.84	n/a	n/a	155.88	
	2/2/2015			14.73	n/a	n/a	157.99	
02314-MW10	9/29/2014	172.09	10.3 to 20.3	15.85	n/a	n/a	156.24	
	2/2/2015			14.19	n/a	n/a	157.90	
02314-MW11	9/29/2014	172.07	10.1 to 20.1	15.95	n/a	n/a	156.12	
	2/2/2015			14.30	n/a	n/a	157.77	
02314-MW12	9/29/2014	172.54	10.3 to 20.3	16.40	n/a	n/a	156.14	
	2/2/2015			14.76	n/a	n/a	157.78	
02314-MW13	9/29/2014	172.64	10.3 to 20.3	17.20	n/a	n/a	155.44	
2227 11211 13	2/2/2015			15.55	n/a	n/a	157.09	
02314-MW14	9/29/2014	172.88	10.3 to 20.3	16.75	n/a	n/a	156.13	
	2/2/2015		10.5 to 20.5	15.15	n/a	n/a	157.73	
02314-MW15 - 02314-MW16 -	9/29/2014	173.85 176.97	10.3 to 20.3 - 16.0 to 26.0 -	17.90	n/a	n/a	155.95	
	2/2/2015			15.85	n/a	n/a	158.00	
	11/19/2014			21.50	n/a	n/a	155.47	
	2/2/2015			18.69	n/a	n/a	158.28	
02314-MW17	11/6/2014	176.13	10.4 to 20.4	20.10	n/a	n/a	156.03	
	2/2/2015			17.79	n/a	n/a	158.34	
02314-MW18	11/6/2014	175.59	14.6 to 24.6	19.74	n/a	n/a	155.85	
	2/2/2015			17.40	n/a	n/a	158.19	
02314-MW19	11/6/2014	171.50	12.3 to 22.3	16.32	n/a	n/a	155.18	
	2/2/2015			14.15	n/a	n/a	157.35	

TABLE 2

GROUNDWATER POTENTIOMETRIC DATA

WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9A

Well #	Sample Date	TOC Elevation (1)	Screened Interval	Depth to Water*	Depth to Product*	Product Thickness	Water Table
		ft	ft	ft	ft	ft	ft
02314-MW20	11/6/2014	171.82	12.2 to 22.2	16.63	n/a	n/a	155.19
	2/2/2015			14.35	n/a	n/a	157.47
02314-MW21	2/2/2015	173.97	13.7 to 23.7	16.55	n/a	n/a	157.42
02314-MW22	2/2/2015	171.95	12 to 22	14.65	n/a	n/a	157.30
02314-MW23	2/2/2015	171.03	11.2 to 21.2	13.72	n/a	n/a	157.31
02314-MW24	2/2/2015	169.78	11 to 21	12.54	n/a	n/a	157.24
02314-MW25	2/2/2015	170.08	11 to 21	13.00	n/a	n/a	157.08
02314-MW26	2/2/2015	169.21	10.4 to 20.4	12.24	n/a	n/a	156.97
02314-MW27	2/2/2015	168.95	10 to 20	11.81	n/a	n/a	157.14
02314-DW1	9/29/2014	173.59	49.6 to 54.6	16.97	n/a	n/a	156.62
	2/2/2015			15.37	n/a	n/a	158.22
02314-DW2	2/2/2015	174.37	44.6 to 49.6	16.59	n/a	n/a	157.78
02314-DW3	2/2/2015	169.93	44.6 to 49.6	13.72		n/a	156.21

Notes:

All Data Prior to December 2013 collected by others

Corrected elevation = Water table elevation + [(0.77)(free product thickness)]

 $^{^{(1)}}$ TOC = Top of casing relative to an assumed data

^{* =} Measured relative to TOC

 $[\]hbox{**} \hbox{Corrected Elevation calculated using following equation:}$

TABLE 3 GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9A SCDHEC UST PERMIT #02314 Naph thalene Well # 1,2-DCA Benzene Toluene Xylenes MTBE EDB TAME TBA DIPE ETBE ETBA Ethanol TAA TBF Date benzene 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 RBSL 1,000 700 10,000 25 40 0.05 15 128 1,400 150 47 N/A 10,000 240 N/A 1,350 12,730 <1,000 6/17/1997 1,270 6,510 6,470 367 02314-MW1 Free Product (3.34 ft.) 9/26/2014 Free Product (2.78 ft.) 29 1.25 1.13 136.1 5.5 13.7 02314-MW2 12/9/2013 Could Not Find <20,000 6,900 02314-MW2R 9/29/2014 6,400 18,000 1,600 8,800 330 <200 <200 <2,000 <4,000 87J <200 <4,000 <1,000 2314-MW2R(DUP) 9/29/2014 6,300 18,000 1,700 8.900 320 <2.000 <4.000 100J < 5.0 6/17/1997 <1.0 <1.0 <1.0 <1.0 02314-MW3 12/9/2013 18.5 102 27.6 374 13.4 <1.00 <1.00 <0.010 <15.0 <5.00 <10.0 <5.00 < 5.00 <100 <1,000 20.4 <50.0 6/17/1997 12/9/2013 5,430 14,300 1,960 19,360 1,090 <2,500 Free Product (1.89 ft.) 02314-MW4 Free Product (3.11 ft.) 13 02314-MW6 9/29/2014 1.5 8.8 2.6 21 <1.0 <1.0 <1.0 <10 <1.0 <1.0 <100 <5.0 02314-MW8 9/29/2014 3,700 12,000 1,300 7,200 180J <2,000 <4,000 <200 <20,000 6,700 <1,000 02314-MW10 /2014 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <1.0 <1.0 <100 <5.0 02314-MW12 9/29/2014 0.38J <1.0 <1.0 5.0 <1.0 <1.0 <1.0 <10 <1.0 <100 <5.0 02314-MW14 9/29/2014 0.89J 0.99J <1.0 <10 <1.0 <1.0 <100 100 <5.0 2,800 12,000 750 120J 2,000 5,100 02314-MW16 11/19/2014 <100 0.44J 02314-MW17 11/6/2014 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <100 < 5.0 <1.0 <1.0 <10 <1.0 <100

<2,000

<2,000

<10

<10

<1.000

<10

<4,000

<200

<200

<1.0

<1.0

<100

<1.0

<1.0

<1.0

<1.0

<1.0

4,000

4,000

78,000

87,000

<2,000

<100

<100

<10,000

<100

<4,000

<4.000

1,500

2,700

<1,000

< 5.0

< 5.0

<5.0

02314-MW19

02314-MW21

02314-MW23

02314-MW25

4,100

4,100

1,300

<1.0

<1.0

1,600 2.1

0.34J

11/6/2014 02314-MW19(DUP) 11/6/2014 15,000

15,000

3,300

<1.0

<1.0

<1.0

1,500

1,700

320

<1.0

<1.0

540

<1.0

<1.0

8,300

9.000

2,000

<1.0

<1.0

4,000

0.81J

<1.0

320

340

76

<1.0

<1.0

<100

<1.0

<1.0

<200

41

<1.0

<1.0

<100

<1.0

<1.0

<1.0

<1.0

< 0.019

< 0.019

< 0.019

< 0.020

19

16 4.2J

34

TABLE 3 GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9A SCHEC UST PERMIT #02314

Well#	Sample Date	Benzene	Toluene	Ethyl benzene	Xylenes	Naph thalene	MTBE	1,2-DCA	EDB	Lead	TAME	TBA	DIPE	ETBE	ETBA	Ethanol	TAA	TBF
Units		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
RBSL		5	1,000	700	10,000	25	40	5	0.05	15	128	1,400	150	47	N/A	10,000	240	N/A
02314-MW27	2/2/2015	3.1	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	< 0.019	9.8J	<10	<20	<1.0	<1.0	<20	<100	24	< 5.0
02314-DW1	9/29/2014	0.20J	0.85J	<1.0	0.38J	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-DW2	2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.020	13	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-DW2(DUP)	2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.020	12	<10	<20	<1.0	<1.0	<20	<100	<20	< 5.0
02314-DW3	2/2/2015	46	7.8	0.61J	24	1.3	<1.0	<1.0	< 0.019	<10	<10	<20	<1.0	<1.0	<20	<100	24	<5.0
02314-SW1	12/9/2013	<1.00	<1.00	<1.00	<3.00	<5.00	<1.00	<1.00	< 0.010		< 5.00	<10.0	<5.00	< 5.00	<100	<1,000	<20.0	<50.0
02314-3W1	9/26/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	< 5.0
02314-SW2	12/9/2013									Dry								
02314-3W2	9/26/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-FB1	9/26/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-FB2	9/29/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-TB	9/29/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-		<10	<20	<1.0	<1.0	<20	<100	<20	< 5.0
02314-FB1	11/6/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-TB	11/6/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	< 5.0
02314-FB1	11/19/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-		<10	<20	<1.0	<1.0	<20	<100	<20	< 5.0
02314-TB	11/19/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-FB	2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.020		<10	<20	<1.0	<1.0	<20	<100	<20	< 5.0
02314-TB	2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	< 5.0

02314-TB 2/2/20

NOTES/KEY:
-- Not tested; not analyzed

RBSL = Risk-Based Screening Level

ug/L = micrograms per liter

mg/L = milligrams per liter

J = Estimated value

DUP = Duplicate

MTBE = Methyl tertiary butyl ether
1,2-DCA = 1,2-Dichlorocethane
EDB = 1,2-Divbromechane
EDB = 1,2-Divbromechane
TAME = -t-amyl methyl ether or tert-Amyl methyl ether
TBA = -t-Butunol or tert-Butyl Alcohol
DIPE = diisopropyl Ether or Isopropyl ether

ETBE = Ethyl tert-butyl ether
ETBA = ethyl tert-butanol or 3,3-Dimethyl-1-butanol
TAA = tert-anyl alcohol
TBF = tert-butyl formate
FB = Field Blank
TB = Trip Blank

Bold lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

SCDHEC UST PERMIT #02314

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater Field Delineation Map - Attached

Figure 4B Groundwater CoC Map - Attached

Figure 4C Groundwater CoC Map (Oxygenates) - Attached

4. Site Potentiometric Maps

Figure 5A Site Potentiometric Map (Shallow) - Attached

Figure 5B Site Potentiometric Map (Deep) - Attached

5. Geologic Cross Sections

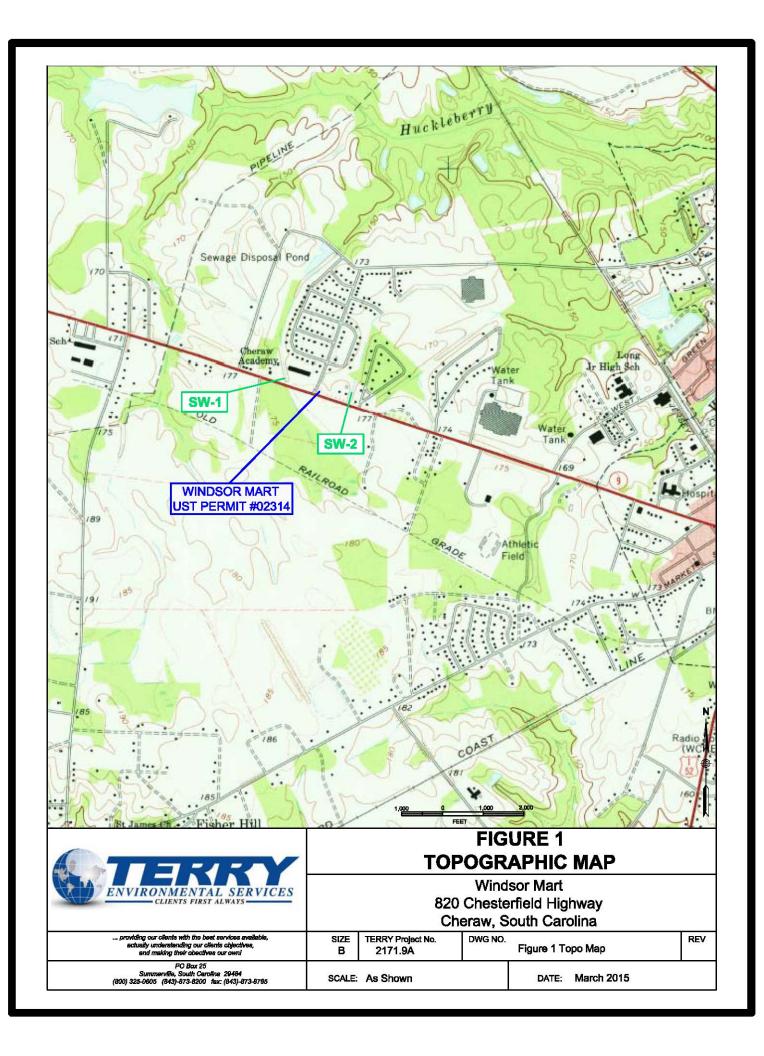
Figure 6A Geologic Transect Map - Attached

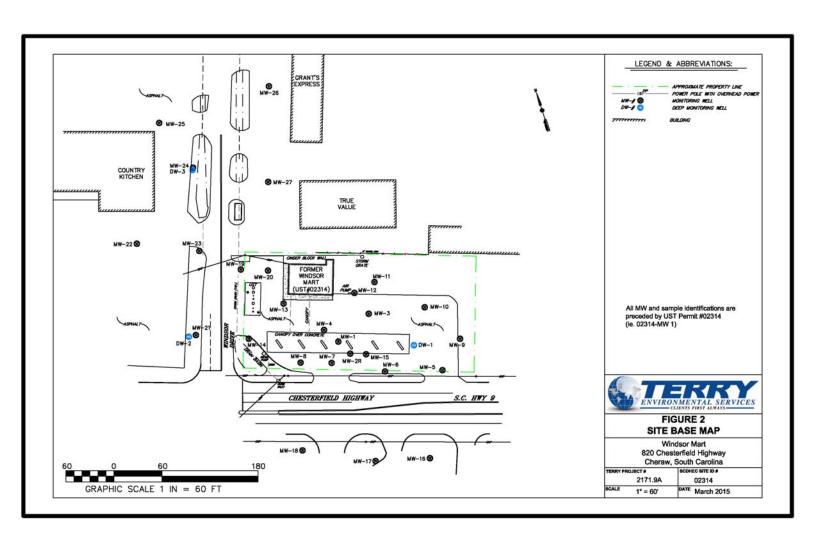
Figure 6B Geologic Cross Section (A-A') - Attached

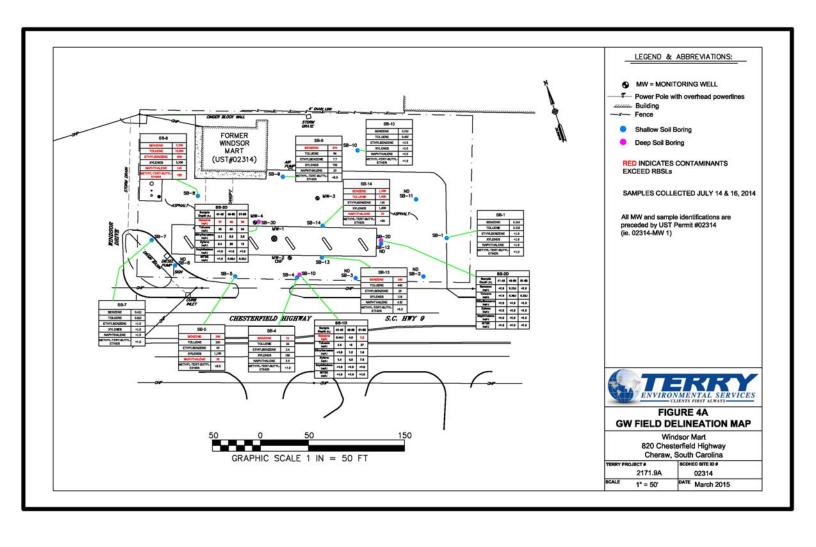
Figure 6C Geologic Cross Section (B-B') - Attached

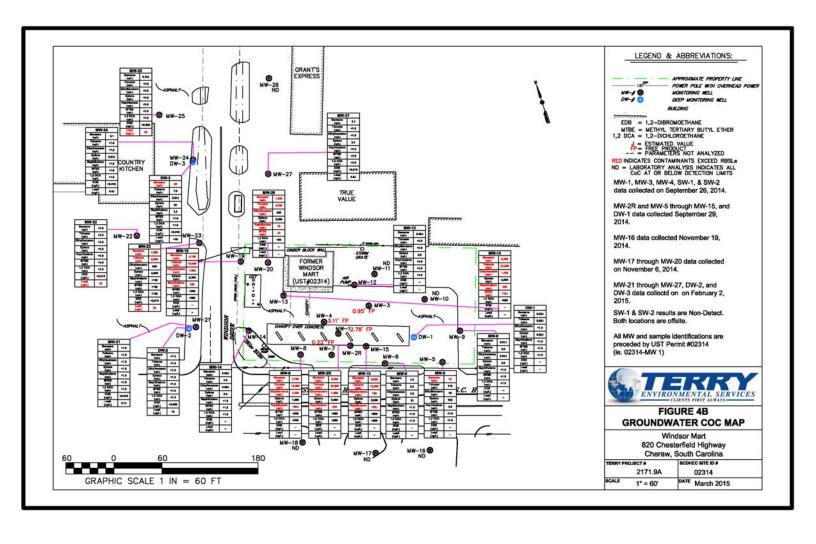
6. Predicted Migration and Attenuation of CoCs

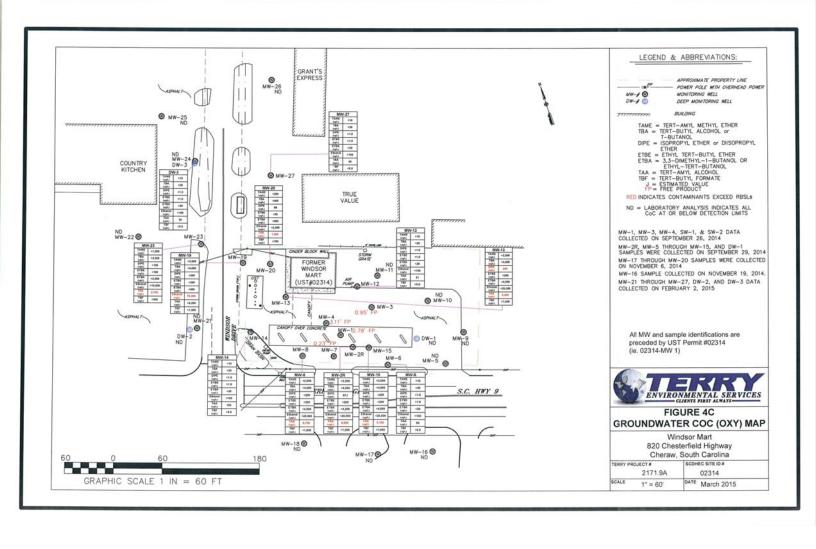
Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

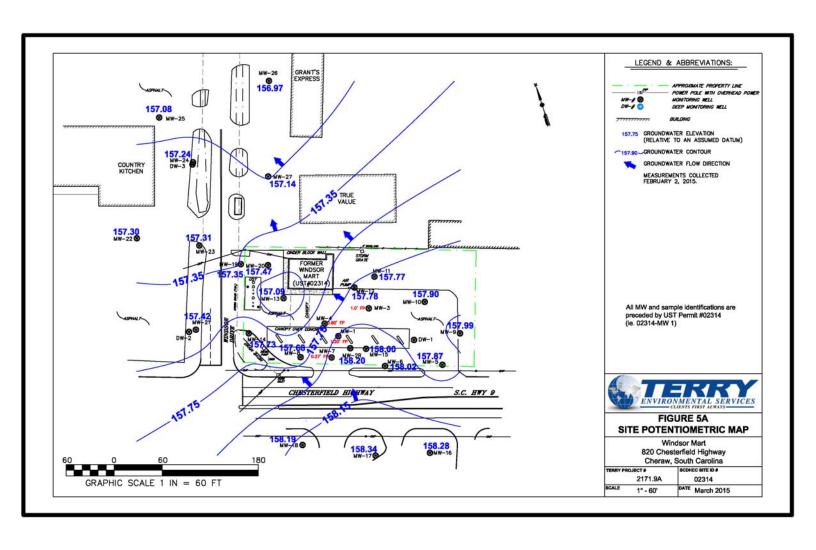


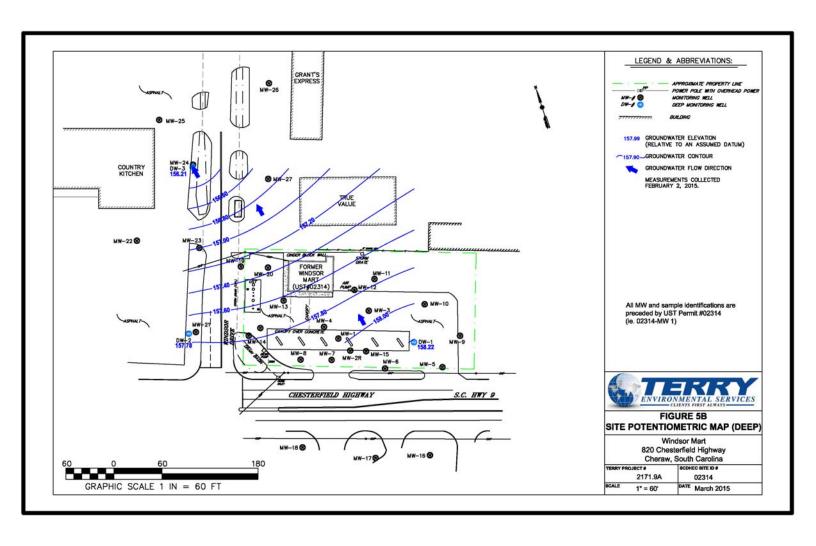


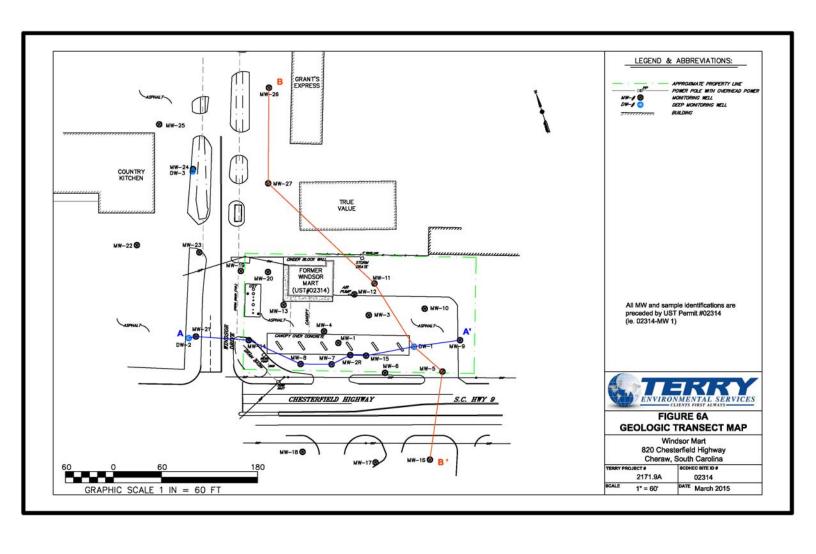


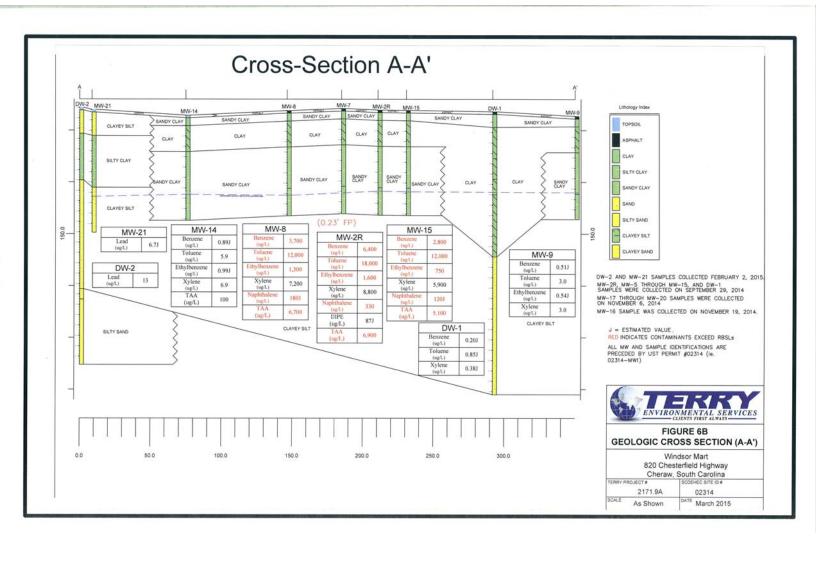


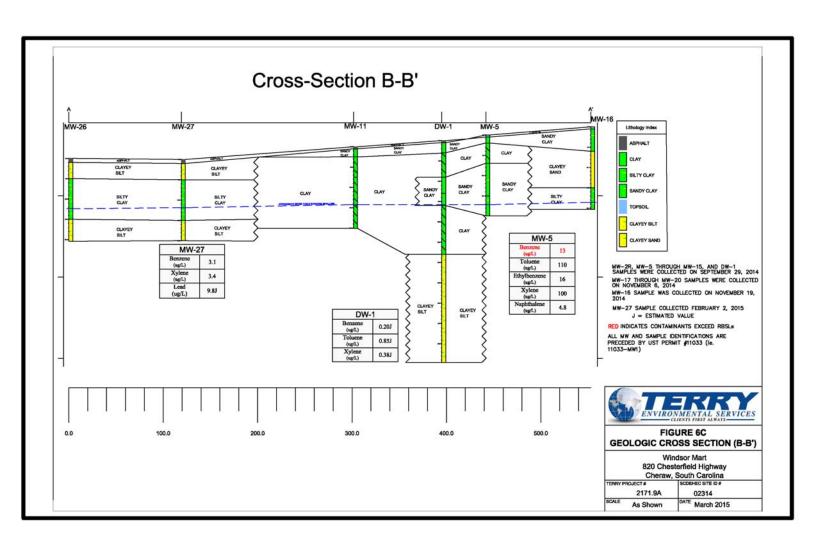












K. APPENDICES

1. Appendix A: Site Survey

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs/SCDHEC 1903 Forms

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

6. Appendix F: Aquifer Evaluation Forms

7. Appendix G: Disposal Manifests

8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

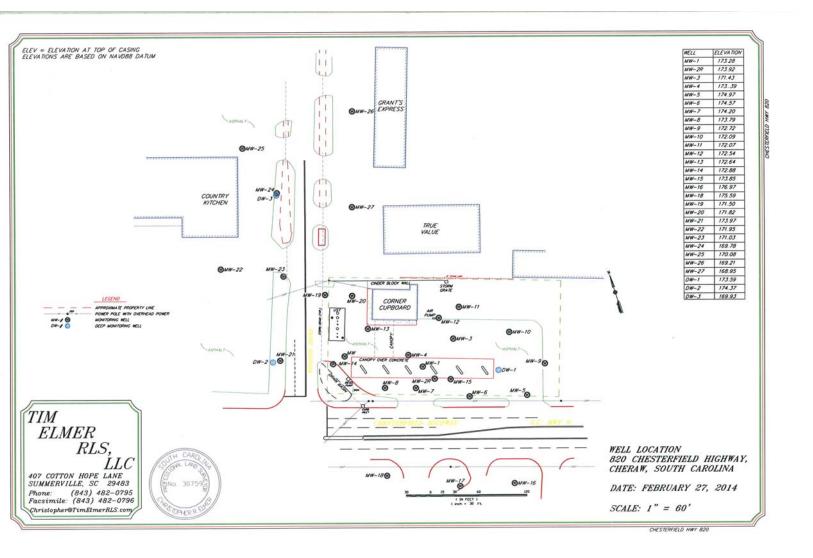
Not Applicable

10. Appendix J: Access Agreements

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey



APPENDIX B

Sampling Logs and Laboratory Data

TER	CLIEN	vironmental of	Services	5					Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			Me	onitoring	Well Info	rmat	ion	
Terry Proje	ect ID	2171.9A				Well II	02	314 -	MWI	
SCDHEC Permi	it No.	02314					DEEL		MEDE 1	2 DG4
Project 1	Vame	Windsor Mart		1	Testin	g Parameter:	2.1		h, MTBE, 1	
	Date	9 12 6/20184						Oxyge	nates, Etha	1101
Field Perso	onnel	JK, AK			I	Well Diameter	2		in	72.00.00
General We	ather	75 Cloudy			Scre	ened Interva	10 to	20	ft	TAG BOTTOM OF
Ambient Air Temper	ature	75		Total	Well Depth	(nearest 0.1'			ft	WELL TO
	Quality A.	ssurance		Depth to Gr	oundwater	(nearest 0.01)	14.60		ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of W	Vater Column			ft	DEPTH,
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing Ve	olume (0.163)			ft	WRITE BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3	Casing Vo	lumes (0.489)			gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	Calibration Constant 53.0 mS/cm Total Volume Purged gals				gals	0.1		
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techn	ique Utilize	ed (bailer, pun	1p)			
Last Calibration (time)	0800	Last Verification √(time)		Well	Yield	Low	Medium		High \square	
Volume	(gal)						1			
Time (mili	itary)				1					
pH	I (su)			170		50000				
Spec Conductivity (mS	S/cm)							1		
Water Temperature	(°C)				Λ	0		1		
Turbidity (1	VTU)					0	whi	714		
Dissolved Oxygen (n	ng/L)									
	Well Condition	n Information				Addition	al Commo	ents		
-overall condition accept	table?							-0.774		
-well cap accept	table?				MP	16.82		Pho	to take	
-manhole and cover accept	table?				DTW	19.60		60 05	- Ambus	
-well pad accept	table?				Differor	w 2	78		Transpo	ront
-area	-area safe?									
athar same	w aute									

TER		vironmental of the state of the	Services	<u>S</u>				Summervill	P.O. Box 25 e, SC 29484 00-325-0605
	Site Specific	Information			Λ	Monitoring W	Vell Informa	tion	
Terry Proje	ct ID	2171.9A				Well ID	02314 -	- MWZ	
SCDHEC Permi	it No.	02314							2 DG4
Project 1	Vame	Windsor Mart		1	Test	ting Parameters		oh, MTBE, 1	
	Date	9 125/2014					Oxyg	enates, Ethar	101
Field Perso	onnel	31C				Well Diameter	Z	in	2,235,23
General We	ather	Cloudy			Sc	reened Interval	10-20	ft	TAG BOTTOM OI
Ambient Air Temper	ature	8170		Total	Well Dep	th (nearest 0.1')		ft	WELL TO
	Quality A	ssurance		Depth to Gr	roundwate	er (nearest 0.01')	/	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH,
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing	Volume (0.163)		ft	WRITE BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3	Casing V	Volumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm		Total	Volume Purged		gals	0.1
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techi	ique Util	ized (bailer, pum	p)		
Last Calibration (time)	1130	Last Verification √(time)		Well	Yield	Low	Medium	High 🗆	
Volume	(gal)								
Time (mili	itary)		211-	Α.					
pH	I (su)			//	1		0		
Spec Conductivity (m.S	S/cm)		0100	, //	10	Jamp	2		
Water Temperature	(°C)								
Turbidity (?	VTU)								
Dissolved Oxygen (n	ng/L)								
	Well Condition	n Information				Additiona	l Comments		
-overall condition accept	table?						/		
-well cap accept	table?	/				/			
-manhole and cover accept	table?								
-well pad accept				\					
	safe?								
-other com	ments								

TER	15	En	vironn s first alwa	nental L	Services	5						Summervill	P.O. Box 25 e, SC 29484 00-325-0605
	Sit	e Specific I	nformation	n			Λ	Monitor	ring W	ell Infor	mati		0000
Terry Proje				71.9A					Vell ID			MW-Z	IR
SCDHEC Permi	it No.		02	2314									1
Project 1	Vame		Winds	sor Mart		1	Tes	ting Para	meters			, MTBE, 1	
	Date		9/29	/2014						0	xyger	nates, Ethan	101
Field Perso	onnel		JK	ζ.				Well Di	ameter	7	\neg	in	
General We	ather		Cle	ouls			Sc	reened I	nterval	20.3-10	0.3	ft	TAG BOTTOM O
Ambient Air Temper	ature		8			Total	Well Dep	th (near	est 0.1')	70,3		ft	WELL TO VERIFY
		Quality As	surance			Depth to Gr	oundwate	er (neare:	st 0.01')	17.60	0	ft	WELL
pH Meter	Но	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water C	Column	2.70		ft	DEPTH, WRITE
Serial Number	VV	VKAUMKJ	S	erial Number	VWKAUMKJ		1 Casing	Volume	(0.163)	0.44		ft	BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing 1	Volumes	e (0.163) 0 44 ft es (0.489) 1.32 gals e Purged 1.5 gals utiligr, pump)			NEAREST 0.1'	
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm		Total	Volume 1	Purged	1.5		gals	***
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Techn	ique Util	ized (bai	gr, pum	p)			20,3
Last Calibration (time)		130 .	Last Verific	cation √(time)	j	, Well	Yield	Low	pet	Medium		High □	001
Volume	(gal)	Initial	0.5	ſ	1-5	15angle	4						
Time (mil	itary)	1340	1342	1346	1350	1 0)						
pH	I (su)	4.47	4.81	4.77	4.80								
Spec Conductivity (m.	S/cm)	0.077	0.059	0.059	0.061								
Water Temperature	(°C)	21.7	21.9	21.9	71.9		0	2					
Turbidity (1		19.3	121	132	135						_		
Dissolved Oxygen (n		3.15	4.17	3.27	2.89								
٥	Wel	l Condition	Informati	on				Add	itiona	l Comme	ents		
-overall condition accept	table?		125			A			0				
-well cap acceptable?			-()			MW	192	SUP	10	1352			
-manhole and cover accept	table?		0			-							7 3
-well pad accept	table?												
	safe?											- 2	
ath an agus													

TER	CLIEN	ts first ALWAYS	Services	5				Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			M	onitoring W	Vell Informa	tion	
Terry Proje	ect ID	2171.9A				Well ID	02314 -	- MW-3	3
SCDHEC Permi	it No.	02314					DTEV M	1 MTDE 1	2 DC4
Project 1	Vame	Windsor Mart		1	Testin	ng Parameters		ph, MTBE, 1 genates, Ethai	
	Date	9/26/20134					Oxyg	chates, Etha	1101
Field Perse	onnel	JK, AK)	Well Diameter	2	in	TAG
General We	ather	Cloudy			Scre	eened Interval		ft	воттом он
Ambient Air Temper	ature	75		Total	Well Depth	(nearest 0.1')		ft	WELL TO VERIFY
	Quality A	ssurance		Depth to G	roundwater	(nearest 0.01')	14.70-15	65 ft	WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of V	Water Column		ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing V	olume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm		3 Casing Vo	lumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm		Total V	olume Purged		gals	
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Tech	nique Utiliz	ed (bailer, pum	p)		
Last Calibration (time)	6800	Last Verification √(time)		Well	Yield	Low	Medium	High \square	
Volume	(gal)								
Time (mil	itary)								
рH	I (su)		N 1	1	N		1		
Spec Conductivity (m.	S/cm)	ree	Pran	uch	100	Sam	00		
Water Temperature	(°C) /			V					
Turbidity (1	VTU)								
Dissolved Oxygen (n									
	Well Condition	n Information				Additiona	l Comments		
-overall condition acceptable?				Pn	oduct	at 14.7	F		
-well cap acceptable?					pproximo	tely 15	. 5710		
-manhole and cover accept	-manhole and cover acceptable?						Amber	· Color , I	rangaron
-well pad accept	-well pad acceptable?					14,70			5.
-area	-area safe?					15.65			
-other com	ments				DIFF	0,956	-1		

TER	CLIEN	vironmental of	Services	<u>S</u>				Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific .	Information			N	Ionitoring W	ell Informat	ion	
Terry Proje	ect ID	2171.9A				Well ID	02314 -	mw 4	
SCDHEC Permi	it No.	02314					DTEV N	L ACTOR 1	2.004
Project 1	Vame	Windsor Mart		1	Test	ing Parameters	BTEX, Nap		
	Date	9 126/20134					Oxyge	enates, Ethai	.101
Field Perso	onnel	JKIAK				Well Diameter	7	in	72272
General We	ather	Closly			Sc	reened Interval	10-20	ft	TAG BOTTOM OI
Ambient Air Temper		75		Total	Well Dept	th (nearest 0.1')	_	ft	WELL TO
	Quality A.	ssurance		Depth to Gr	roundwate	er (nearest 0.01')	19.43	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing	Volume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	cm 3 Casing Volumes (0.489)			gals	NEAREST 0.1'	
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm		Total)	Volume Purged		gals	V.1
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techr	nique Utili	ized (bailer, pum	0)		
Last Calibration (time)	0800	Last Verification √(time)		Well	Yield	Low.	Medium	High \square	
Volume	(gal)								
Time (mili	itary)								
pH	I (su)		1	/	7	0 0	,		
Spec Conductivity (m.S	S/cm)	110	panale	- 1 +	cee	Prode	uct		
Water Temperature	(°C) /			1					
Turbidity (1	VTU)								
Dissolved Oxygen (n									
	Well Condition	n Information				Additiona	l Comments		
-overall condition accept	table?	15							
-well cap accept	table?				DTP	16.32			
-manhole and cover accept	table?				DTW	19,43			
-well pad accept	table?				DIFF	3.11			
-area	safe?	/							
-other com	ments			Consi	FM	61- Trunco	4-5-2-1		

TER	15	En	vironn IS FIRST ALW	nental ,	Services	5				Summervill	P.O. Box 25 le, SC 29484
	Sit	e Specific	Informatio	n			М	onitoring W	Vell Informat		00-325-0605
Terry Proje		1 3		71.9A				Well ID	02314 -		25
SCDHEC Perm	it No.		02	2314						10000	
Project 1	Name		2.1.00000	sor Mart			Testi	ng Parameters		oh, MTBE, 1	
	Date			/2014				9	Oxyg	enates, Ethai	nol
Field Pers	onnel		, ,	TK .				Well Diameter	Z	in	
General We	ather		(Clouds				eened Interval	19.9-2.2	ft	TAG BOTTOM OI
Ambient Air Temper	ature			20		Total	Well Dept	h (nearest 0.1')	19-9	ft	WELL TO
		Quality A:	ssurance			Depth to G	oundwater	(nearest 0.01')	18.51	ft	VERIFY WELL
pH Meter	Но	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water Column	1.39	ft	DEPTH,
Serial Number	VV	VKAUMKJ	s	Serial Number	VWKAUMKJ			olume (0.163)	0.23	ft	WRITE BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing Ve	olumes (0.489)	0.69	gals	NEAREST 0.1'
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm		Total V	olume Purged	0.75	gals	0.1
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Techi	ique Utiliz	ed (bailer, pum	p)		19 a
Last Calibration (time)		1130	Last Verific	cation √(time)	1530	Well	Yield	Low 😝	Medium	High \square	19.9
Volume	(gal)	Initial	0.25	0.5	0.75	15mg	L				
Time (mil	itary)	1546	1549	1556	1600	()					
pI	I (su)	4.40	4.64	4.60	4.55						
Spec Conductivity (m.	S/cm)	0.057	0.053	0.653	0.052						
Water Temperature	e (°C)	70-9	71.1	71.1	71-15						
Turbidity (NTU)	152	446	469	471						
Dissolved Oxygen (n	-	7-30	6-19	3.82	5.12						
	Well	l Condition	i Informati	on				Additiona	l Comments		
-overall condition accep	table?		yes								
-well cap accep	table?		0								
-manhole and cover accep	table?										
-well pad accep	table?										
-area	safe?										
-other com	ments					10					

TER	15	En	vironn s first alw	nental ,	Services	5				Summervil	P.O. Box 25 le, SC 29484
	Sit	e Specific I	nformatio	n			М	onitoring W	Vell Informat		00-325-0605
Terry Projec				71.9A				Well ID	02314 -		
SCDHEC Permit	t No.		02	2314						WOOD O	
Project N	Vame			sor Mart			Testi	ng Parameters		oh, MTBE, 1	
	Date		9/79					9	Oxyg	enates, Etha	nol
Field Perso	nnel		JX					Well Diameter	7	in	
General Wea	ather			mely Ran	^			eened Interval		ft	TAG BOTTOM OF
Ambient Air Tempera	ature		80	0		Total		h (nearest 0.1')	20:1	ft	WELL TO
		Quality As				Depth to G	roundwater	(nearest 0.01')	18.17	ft	VERIFY WELL
pH Meter	Hor	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water Column	1.93	ft	DEPTH,
Serial Number	VW	KAUMKJ	S	Gerial Number	VWKAUMKJ			olume (0.163)	0.31	ft	WRITE BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm		Casing Ve	olumes (0.489)	0.93	gals	NEAREST
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm		Total V	olume Purged	1.5	gals	0.1'
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Tech	nique Utiliz	ed (bailer, pum	n)		1.05
Last Calibration (time)	1	130 .	Last Verific	cation √(time)	_	Well	Yield	Low 🗵	Medium	High 🗆	Con
Volume	(gal)	Initial	0.5	1	1:5		i				
Time (mili	tary)	1300	1303	1309	1315	/ Sam	le				
pН	(su)	5.05	5.47	5.47	5.48	,					
Spec Conductivity (mS	(cm)	0.081	0.091	0.095	0-097						
Water Temperature	(°C)	21.9	22,4	22.4	77.5						
Turbidity (N	VTU)	347	789	311	313						
Dissolved Oxygen (m		8.79	9.30	6.41	5,82						
	Well	Condition	Informati	on				Additiona	l Comments		
-overall condition acceptable?			ye	5							
-well cap accepto	able?		0	(
-manhole and cover accepto	able?										
-well pad accepto	able?										
-area		\		<u> </u>							
-other comp	nents		4								

TER	CLIEN	vironmental TS FIRST ALWAYS	Services	5					P.O. Box 2: le, SC 29484 00-325-060
	Site Specific	Information			Me	onitoring W	ell Informa	ation	
Terry Proje	ect ID	2171.9A				Well ID	02314	- MW7	
SCDHEC Permi	it No.	02314							2.004
Project 1	Name	Windsor Mart		1	Testin	g Parameters		aph, MTBE, 1 genates, Etha	
	Date	9 / 29/2014					Oxy,	genates, Etha	1101
Field Perso	onnel	3K			J	Vell Diameter	2	in	m.c
General We	ather	Cloudy			Scre	ened Interval	20,3-10	3 ft	TAG BOTTOM O
Ambient Air Temper		30		Total	Well Depth	(nearest 0.1')	20.3	ft	WELL TO VERIFY
	Quality A.	ssurance		Depth to Gr	oundwater	(nearest 0.01')		ft	WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of W	Vater Column	/	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing Va	olume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3	Casing Vo	lumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm		Total Ve	lume Purged	/	gals	870
Calibration Constant	9.18	Calibration Constant		Purge Techn	ique Utilize	ed (bailer, pum			20.3
Last Calibration (time)	1130	Last Verification √(time)	_	Well	Yield	Low	Medium 🗆	High 🗆	00.
Volume	(gal) This tick								
Time (mil	itary)								
pH	I (su)		0		Λ	1			
Spec Conductivity (m.	S/cm)	///2	B F(0)	cluct	/	10 5	mple		
Water Temperature	(°C)				/		- 0		
Turbidity (1									
Dissolved Oxygen (n									
	Well Condition						l Comment.	5	
-overall condition accept	table?	W3			DTP 1	7.86			
-well cap accept	table?	0			-	3.09			
-manhole and cover accept	table?	120			OTEL	0.23			
-well pad accept	table?						()	and the second	1
-area safe?				C	olbi:	light au	uber, to	ansparen	T
-other com	ments	T					2002	20]	

TER		S FIRST ALWA	175	Services	5				Summervill 1-8	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific I					N.	Ionitoring W	ell Informat		
Terry Proje			1.9A				Well ID	02314 -	MW8	
SCDHEC Perm		02	2314					BTEX, Nap	h MTRF 1	2-DCA
Project			sor Mart			Test	ing Parameters		enates, Ethan	
	Date	9 129	/2014							
Field Pers		JK					Well Diameter	2	in	TAG
General We	200000000000000000000000000000000000000	Clon	els			Sc	reened Interval	20.3-103	ft	BOTTOM OF
Ambient Air Temper		80) \		Total	Well Dept	th (nearest 0.1')	20.3	ft	WELL TO VERIFY
	Quality As	surance			Depth to Gr	oundwate	r (nearest 0.01')	17.55	ft	WELL
pH Meter	Horiba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water Column	2.75	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	S	erial Number	VWKAUMKJ		1 Casing	Volume (0.163)	0.45	ft	BELOW TO
Calibration Constant	4.00	Calibration Constant		4.49 mS/cm	3	Casing V	olumes (0.489)	1.35	gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant		53.0 mS/cm	Total Volume Purged			1.5	gals	
Calibration Constant	9.18		tion Constant	58.7 mS/cm	Purge Techn	ique Utili	zed (bailer, pum			8 05
Last Calibration (time)	1130	Last Verification √(time)			Well	Yield	Low 🔀	Medium	High \square	CO 2
Volume		15	ſ	1.5	/					
Time (mil	1 140	1423	1428	1435	15hup	CC				
pI	1 (su) 4-78	4.82	4.85	4-88	1					
Spec Conductivity (m.	S/cm) (0.070	0.070	0.071	0.073						
Water Temperature	e (°C) 21.3.	21.4	21-8	8-15						
Turbidity (NTU) ill	352	358	345						
Dissolved Oxygen (r		6.46	8.14	4.21						
	Well Condition	Information	on				Additiona	l Comments		
-overall condition accep	table?	yes								
-well cap accep	table?									
-manhole and cover accep	table?									
-well pad accep	-well pad acceptable?									
-area	safe?	V								
-other com	ments									

TER					Services	5						P.O. Box 25 lle, SC 29484 300-325-0605
	Sit	e Specific I	Informatio	n			Λ	Monitorin	g W	ell Inform	ation	
Terry Proje	ct ID		21	71.9A				Wel	I ID	02314	- Muse	1
SCDHEC Permi	it No.		02	2314						2000-00-00-00-00-0		
Project 1	Vame		Wind	sor Mart		1	Tes	ting Parame	ters	35	aph, MTBE,	
	Date		9 129	/2014						Оху	genates, Etha	inoi
Field Perso	onnel		3	K				Well Diam	eter	7	in	T
General Wes	ather		C	buels			Sc	creened Inte		19.9 - 9.9	ft	TAG BOTTOM OF
Ambient Air Tempere	ature		8	30		Total	Well Dep	oth (nearest	9.17	19.9	ft	WELL TO
		Quality As	surance			Depth to Gr	oundwate	er (nearest 0.	01')	16.84	ft	VERIFY WELL
pH Meter	Ho	riba U-52-2	Cond	luctivity Meter	Horiba U-52-2		Length of	f Water Colu	mn	3.06	ft	DEPTH,
Serial Number	VV	VKAUMKJ		Serial Number	VWKAUMKJ		1 Casing	Volume (0.1	(63)	0,50	ft	WRITE BELOW TO
Calibration Constant	1	4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing V	Volumes (0.4	(89)	1.50	gals	NEAREST
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm			Volume Pur		15	gals	0.1'
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Techn	ique Util	ized (bailer),	ритр			10.0
Last Calibration (time)		1130 1	Last Verific	cation √(time)	1530	Well	Yield	Low		Medium	High	19.9
Volume	(gal)	Initical	0.5	ĺ	1.5	Buyl	(
Time (mili	itary)	1617	1620	1624	1628	1						
рН	(su)	4-34	4.47	4.50	4.44							
Spec Conductivity (mS	(cm)	0.110	0.114	0.115	0.115							
Water Temperature	(°C)	21-4	20.5	20:5	205							
Turbidity (!	VTU)	88.6	616	589	571							
Dissolved Oxygen (n	ıg/L)	3.97	4.97	5.11	4-70							
	Well	l Condition	Informati	on				Additio	ona	l Comment.	s	
-overall condition accept	able?		URS									
-well cap accept	able?		01									
-manhole and cover accept												
-well pad accept	able?											
	-area safe?											
-other com	-well pad acceptable? _ -area safe? _ -other comments					-						

TER		CLIENT	TS FIRST ALWA	1 YS	Services	5					P.O. Box 25 le, SC 29484 00-325-0605
	Sit	te Specific I	Information	n			M	onitoring W	'ell Informa	tion	
Terry Proje	ct ID		217	71.9A				Well ID	02314	- MW 11)
SCDHEC Perm	it No.		02	2314						ph, MTBE, 1	
Project 1	Vame			sor Mart			Testi	ng Parameters		genates, Etha	
	Date		9 /29	/2014					, ,	,cinates, Etna	1101
Field Perso	onnel		JK	5				Well Diameter	7	in	TAG
General We			Cl	oucly			Scr	eened Interval	20.3-10,3	ft	BOTTOM OF
Ambient Air Temper	ature		8	00				h (nearest 0.1')	20.3	ft	WELL TO VERIFY
		Quality As	ssurance			Depth to Gr	oundwater	(nearest 0.01')	15.85	ft	WELL
pH Meter	Но	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2	1	Length of	Water Column	4.45	ft	DEPTH, WRITE
Serial Number	VV	VKAUMKJ	s	erial Number	VWKAUMKJ		l Casing V	olume (0.163)	0.73	ft	BELOW TO
Calibration Constant		4.00	Calibra	tion Constant		3	Casing Ve	olumes (0.489)	7.19	gals	NEAREST 0.1'
Calibration Constant		6.86	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tion Constant				olume Purged	2.25	gals	
Calibration Constant		9.18	17/00/07/07	tion Constant		- C	•	ed (bailer, pum	*		20.3
Last Calibration (time)	11	30		cation √(time)	1330	Well Y	lield	Low	Medium 🔎	High 🗆	
Volume	(gal)	1000	0.75	1.5	2.25	/ Sample	4				
Time (mil	itary)		1610	16/3	1015	/ /	10000				
	I (su)		4-77	4.70	4-69				7		
Spec Conductivity (m.		0.00	0.105	0.104	0.102						
Water Temperature			4-15	21.6	21-6						
Turbidity (1			601	586	559						
Dissolved Oxygen (n			8.11	9.70	7-85			4.77	10		
		l Condition						Additiona	l Comments		
-overall condition accept	table?		ge	5							
-well cap accept	table?										
-manhole and cover accep											
-well pad accept				6. 1							
-area	safe?		4								
-other com	ments										

TER		En	vironn s first alw	nental .	Services	5				Summervil		
	Site Sp	pecific I	nformatio	n			Λ	Aonitoring W	ell Informat		00-325-060	
Terry Proje				71.9A		Well ID				112211		
SCDHEC Perm	it No.		02	2314								
Project 1	Name		Wind	sor Mart		Testing Parameters B'				BTEX, Naph, MTBE, 1,2-DCA,		
	Date		9 179	/2014				3	Oxygenates, Ethanol			
Field Pers	onnel		3	1		Well Diameter			7	in		
General We	ather			week			Sc	reened Interval	20.1-10:1	ft	TAG BOTTOM O	
Ambient Air Temper	ature			30		Total	Well Dep	th (nearest 0.1')	1,07	ft	WELL TO	
	Qu	ality As	surance					er (nearest 0.01')	15.95	ft	VERIFY WELL	
pH Meter	Horiba U	pa U-52-2 Conductivity Meter Horit					Length of	Water Column	4.15	ft	DEPTH,	
Serial Number	VWKAU	UMKJ	5	Serial Number	VWKAUMKJ	1 Casing Volume (0.16			0.68	ft	WRITE BELOW TO	
Calibration Constant	4.0				4.49 mS/cm	3 Casing Volumes (0.489)			7.04	gals	NEAREST 0.1'	
Calibration Constant	6.8	6	Calibra	tion Constant	53.0 mS/cm		Total	Volume Purged	2.25	gals	0.1	
Calibration Constant	9.1	8	Calibra	tion Constant	58.7 mS/cm	Purge Techn	ique Util	ized (bailer, pum)			70)	
Last Calibration (time)	1131	0	Last Verific	cation √(time)		Well Yield Low		Medium	High \square	1.05		
Volume	(gal) Z	nitial	0,75	1.5	7-25	1 sample	(
Time (mil			1152	1159	1210	/						
₽₽	I (su) 5.	3)	6-22	8.24	6.19							
Spec Conductivity (m.	S/cm) A.	108	0.177	121.0	0.124							
Water Temperature	(00) 3	0.55	7115	21.7	71.7							
Turbidity (NTU)	6.4	117	111	121							
Dissolved Oxygen (n		56.1	7.61	8.19	8.02							
	Well Co	ndition	Informati	on				Additiona	l Comments			
-overall condition accep	table?		yl	5								
-well cap accep	table?		0 1									
-manhole and cover accep	table?											
-well pad accep	table?											
-area	safe?											
-other com	ments											

TER	KY C	Environi JENTS FIRST ALV	nental	Services	5					P.O. Box 25 lle, SC 29484		
	Site Speci	fic Information	on			Λ	Monitoring	Well Inform		800-325-0605		
Terry Proje			171.9A						14-MWIZ			
SCDHEC Perm	it No.	(02314									
Project 1	Vame		dsor Mart		1	Tes	ting Parameter	C	1,2 - DCA,			
	Date		7/2013					Oxygenates, Ethanol				
Field Perse	onnel	3			Well Diameter			r C	in	T		
General We	ather		louely			So	reened Interva			TAG BOTTOM OF		
Ambient Air Temper	ature	(200		Total		th (nearest 0.1			WELL TO		
	Qualit	y Assurance			Depth to G	roundwate	er (nearest 0.01			VERIFY WELL		
pH Meter	Horiba U-52	-2 Con	ductivity Meter	Horiba U-52-2		Length of	Water Colum			DEPTH,		
Serial Number	VWKAUM	CJ	Serial Number	VWKAUMKJ		1 Casing Volume (0.163)				WRITE BELOW TO		
Calibration Constant	4.00	Calibi	ation Constant	4.49 mS/cm			olumes (0.489	V.0		NEAREST		
Calibration Constant	6.86	Calibi	53.0 mS/cm			Volume Purge			0.1'			
Calibration Constant	9.18	Calibi	ation Constant	58.7 mS/cm	Purge Tech	nique Util	ized (bailer, pu	np)				
Last Calibration (time)	1130	Last Verij	fication $\sqrt{\text{(time)}}$	-	Well Yield Low			Medium	∯ High □	20.3		
Volume		1 21230	A1237	1243	/ Sungeli							
Time (mil	itary) 122		91.5	57.25	4							
pH	I (su) 4.6	3 5.10	5.06	5.01								
Spec Conductivity (m.			0.100	0.099								
Water Temperature	(°C) 22.		22.0	22.0								
Turbidity (1	VTU)	149	157	142								
Dissolved Oxygen (n	ng/L) 3.84	6.10	4.90	4.12								
	Well Condi	tion Informat	tion				Addition	al Commer	nts			
-overall condition accept	table?	ye	15									
-well cap accept	table?		1									
-manhole and cover accept	table?	U										
-well pad accept	table?											
-area safe?												
	20		,									

TER	15	En	vironn s first alw	nental .	Services	S				Summervill	P.O. Box 25 le, SC 29484
	Sit	e Specific I	nformatio	n			M	onitoring W	Vell Informat		00-325-0605
Terry Proje		7 - 7 -		71.9A		Well ID			02314 -		Z
SCDHEC Permi				2314				77 CH 12			
Project N				sor Mart			Testi	ng Parameters	BTEX, Nap		
	Date		9 /29	3 7 7 7 7 7 7 7			2 0011	ng a urumeters	Oxygenates, Ethanol		
Field Perso			3					Well Diameter	7	in	
General We	-			loudy					20.3-10.3	ft	TAG BOTTOM OF
Ambient Air Temper				800		Total		h (nearest 0.1')	20-3	ft	WELL TO
•		Quality As	surance	60				(nearest 0.01')	17.20	ft	VERIFY WELL
pH Meter	Ho	riba U-52-2		uctivity Meter	Horiba U-52-2		Length of	Water Column	3.10	ft	DEPTH,
Serial Number	1000000	VKAUMKJ			VWKAUMKJ	1 Casing Volume (0.163)			0,50	ft	WRITE BELOW TO
Calibration Constant				4.49 mS/cm			olumes (0.489)	1.50	gals	NEAREST	
Calibration Constant					53.0 mS/cm			olume Purged	115	gals	0.1'
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pum					70.7
Last Calibration (time)	i	130	Last Verific	cation √(time)	_	Well Yield Low		Medium 🖳	High	0.3	
Volume	(gal)	Initial	0.5		1.5	15am	nh				
Time (mil	itary)	1505	1508	1513	1520						
pH	I (su)	4.89	5.01	5.10	5.09						
Spec Conductivity (m.	S/cm)	0.101	0.111	511.0	0.113						
Water Temperature	(°C)	4.15	21.9	21.5	21.9						
Turbidity (1	NTU)	59.3	138	141	147						
Dissolved Oxygen (n	ng/L)	7.67	5.40	6-51	4.72						
Well Condition Information								Additiona	l Comments		
-overall condition accept	table?		ues								
-well cap accept	table?		OF								
-manhole and cover accept	table?		•								***************************************
-well pad accept	table?										
-area	safe?										
ath an answ											

TER		CLIENT	S FIRST ALWA	YS —	Services	5						Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Sit	e Specific 1	nformation	n			Λ	Ionitor	ing W	ell Info	rmat	ion .	
Terry Proje	ect ID		217	1.9A		Well ID				02314 - mul			1
SCDHEC Perm	it No.		02	314									7
Project !	Name		Winds	or Mart		1	Test	ting Paran	neters	BTEX, Naph, MTBE, 1,2-Do Oxygenates, Ethanol			
	Date		9 /29	/2014						Oxygenates, Ethanol			1101
Field Perso	onnel		JK	4		Well Diameter			meter	て		in	T1.0
General We	ather		Clo	nely			Sc	reened In	terval	70.3-	103	ft	TAG BOTTOM OF
Ambient Air Temper	ature			300		Total	Well Dep	th (neare	st 0.1')	20.3	3	ft	WELL TO VERIFY
		Quality As	surance			Depth to Gr	roundwate	er (nearesi	0.01')	16.	75	ft	WELL
pH Meter	Но	riba U-52-2	Condi	Horiba U-52-2		Length of	Water Co	olumn	3.53	5	ft	DEPTH, WRITE	
Serial Number	VV	VKAUMKJ	S	erial Number	VWKAUMKJ	1 Casing Volume (0.163)			0.5	8	ft	BELOW TO	
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3 Casing Volumes (0.489)			0.489)	1.70	1	gals	NEAREST 0.1'
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm	Total Volume Purgea			urged	2-2	5	gals	0.1
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Technique Utilized (b@ler, pump)							20,3
Last Calibration (time)		1130 .	Last Verific	cation √(time)	_	Well Yield Low			Medium		High 🗆	60.0	
Volume	(gal)	Initial	0.75	1.5	7.75	1 sams	le						
Time (mil	itary)	1440	1443	1950	1500	/ /							
pH	I (su)	4.71	4-67	4.62	4-64								
Spec Conductivity (m.	S/cm)	2.046	0.047	0.050	0.051								
Water Temperature	(°C)	1.65	8115	8.15	21.8								
Turbidity (NTU)	43.2	103	107	114								
Dissolved Oxygen (1			9.71	4.47	3.86								
	Wel	l Condition	Information	on				Addi	tiona	l Comm	ents		
-overall condition acceptable?													
-well cap accep			1										
-manhole and cover accep	table?		0										
-well pad accep	table?												
	safe?												
-other com	ments			/									

TER		CLIEN	rs first	ALWA	1YS	Services	<u> </u>				Summervil 1-8	P.O. Box 25 le, SC 29484 00-325-0605
		e Specific .	Inform		100			M	Ionitoring W	Vell Informat		
Terry Proje	2002/01/05/04			1,5-10,101,10	1.9A		Well II			02314 - MW 15		
SCDHEC Permi					2314					BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Project 1	ALC: NO.				sor Mart			Test	ing Parameters			
	Date		9		/2014					,,,		
Field Perso				31			Well Diameter			2	in	TAG
General We				Cle	ough			00,400	reened Interval	20.3-10-3	ft	BOTTOM OF
Ambient Air Temper	ature	0 " 1			390				h (nearest 0.1')	20.3	ft	WELL TO VERIFY
Quality Assurance								r (nearest 0.01')	17.90	ft	WELL	
pH Meter		riba U-52-2							Water Column	2,40	ft	DEPTH, WRITE
Serial Number	VV	VKAUMKJ	-			VWKAUMKJ		1 Casing Volume (0.163)		0,39	ft	BELOW TO NEAREST
Calibration Constant		4.00	1		tion Constant	100000000000000000000000000000000000000	3 Casing Volumes (0.489)		1017	gals	0.1'	
Calibration Constant		6.86	1		tion Constant		Total Volume Purged			1.5	gals	
Calibration Constant Last Calibration (time)	1	9.18	4		tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pun Well Yield Low		Medium 🗵	High	20.3	
The second secon	1	130			cation √(time)		_	-	Low 🗆	Meutum E	nigh 🗆	
Volume	.0 /	Initial	0		1277	1.5	Singel					
Time (mili		1320	132	_	1327	1333	/ /		1			
	I (su)	4-108	4.4		4.52	4-55			-			
Spec Conductivity (mS		21.8	0.0		0.055	0.054						
Water Temperature Turbidity (1	1 -	110	27 99.	_	2-22	7-55			-			
Dissolved Oxygen (n	_	5.71	4.2	7	7.41	4.10			-			
Dissorren Oxygen (n		l Condition	Inform	natio		1.10			Additiona	l Comments		
-overall condition accept			1000				Slink	+ Ro	ro Oder			
-well cap accept			()	/			-1131		150 000			
-manhole and cover accept			V									
-well pad accept										100		
	safe?											
-other com			-						1990			

TER	15	En	VITONN S FIRST ALWA	nental .	Services	5				Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site	Specific I	Information	n			Mo	nitoring W	ell Informat	ion	
Terry Proje	ect ID		217	1.9A		Well ID 02314 - DW			DWI		
SCDHEC Perm	it No.		02	2314					DTEV No.	2 DC4	
Project 1	Vame		Winds	sor Mart			Testin	g Parameters	BTEX, Nap Oxyge	*	
	Date	,	9 /29	/2014					Oxyge	101	
Field Perso	onnel		JK			Well Diameter			7	in	TAG
General We	ather		Cle	onely			Scre	ened Interval	54.6-49.6	ft	BOTTOM OF
Ambient Air Temper			8	00		Total	Well Depth	(nearest 0.1')	54.6	ft	WELL TO VERIFY
	Quality Assurance						roundwater	(nearest 0.01')	16.97	ft	WELL
pH Meter	Hor	iba U-52-2	Cond	Horiba U-52-2		Length of W	ater Column	37.65	ft	DEPTH, WRITE	
Serial Number	VW	'KAUMKJ	S	erial Number	VWKAUMKJ	1 Casing Volume (0.163)			613	ft	BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing Vol	umes (0.489)	18:39	gals	NEAREST 0.1'
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm		Total Vo	lume Purged	77	gals	
Calibration Constant		9.18		tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pun					54.6
Last Calibration (time)		130	Last Verific	cation √(time)	1530	Well	Yield	Low	Medium	High 🛎	21.4
Volume	(gal)	Initial	3.5	7	10.5	14	17.5	21	/ Sanger		
Time (mil		1631	1634	1637	1640	1644	1646	1649	0		
pH	I (su)	5.85	5.90	5.96	5.99	6.01	6.04	6.06			
Spec Conductivity (m.	S/cm)	0.110	0.173	0.15)	0.189	D.05	0.215	0.772			
Water Temperature	(°C)	21.0	20.8	20.7	20.6	20.4	20.4	20.4			
Turbidity (390	85.9	77.6	54-2	47.0	43.9	44.1			
Dissolved Oxygen (r.			3.12	5.90	4.87	2.15	2-67	2.99			
	Well	Condition	Information	on				Additiona	l Comments		
-overall condition acceptable?											
-well cap accep	table?										
-manhole and cover accep	table?		0								
-well pad accep	table?			1							
-area	safe?			1/							
-other com	ments			~							

TER	R	Er	vironn ts first alw	nental	Service:	5			Summervil	P.O. Box 25 lle, SC 29484 00-325-0605
	Site	Specific	Informatio	n			Monitoring V	Vell Informa		00 323 0003
Terry Proje				71.9A				- SWI		
SCDHEC Permi	it No.		0:	2314						
Project 1	Name		Wind	sor Mart		Te.	BTEX, Na			
	Date		9120	/2013				Oxygenates, Ethanol		
Field Perso	onnel		JK, A	IC			Well Diameter			
General We	ather		Cloudy			S	creened Interval		ft	TAG BOTTOM OI
Ambient Air Temper	ature		75			Total Well De	pth (nearest 0.1')		ft	WELL TO
		Quality A	ssurance			Depth to Groundwa	ter (nearest 0.01')		ft	VERIFY WELL
pH Meter	pH Meter Horiba U-52-2			uctivity Meter	Horiba U-52-2	Length o	f Water Column		ft	DEPTH,
Serial Number	VW	KAUMKJ	1 .	Serial Number	VWKAUMKJ		Volume (0.163)		ft	WRITE BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3 Casing	Volumes (0.489)		gals	NEAREST
Calibration Constant		6.86 Calibration Constant 53.0 mS/				Total	Volume Purged		gals	0.1'
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Technique Uti	lized (bailer, pum	p)		
Last Calibration (time)	09	500	Last Verifi	cation √(time)		Well Yield	Low	Medium	High	1
Volume	(gal)	エハナ	Sumple							
Time (mil	itary)	0940								
pH	I (su)	5.17								
Spec Conductivity (m.S.	S/cm)	0.117								
Water Temperature	(°C)	19.5								
Turbidity (1	NTU)	17.2								
Dissolved Oxygen (n	ng/L)	4.75								
	Condition	i Informati	on			Additiona	l Comments			
-overall condition accept					SWI	North	of 5110	News		
-well cap acceptable?						REN	1 -a - Cu1	iter		
-manhole and cover accept	table?									
-well pad accept	table?									
-area	safe?									
-other com	monte									

I ER	CLIEN	ts first always	Services	5					ille, SC 29484 800-325-0605	
	Site Specific	Information			М	onitoring V	Vell Informa		000-525-000.	
Terry Proje	ect ID	2171.9A						4- SWZ		
SCDHEC Perm	it No.	02314					BTEX, Naph, MTBE, 1,2-DCA,			
Project 1	Vame	Windsor Mart		1	Testi	ng Parameters				
	Date	9/26/2018		ĺ			Oxyg	Oxygenates, Ethanol		
Field Perso	onnel	JKAK				Well Diameter		in		
General We	ather	Cloudy				eened Interval		ft	TAG BOTTOM O	
Ambient Air Temper	rature	75		Total	Well Depti	h (nearest 0.1')		ft	WELL TO	
	Quality A	ssurance		Depth to G	roundwater	(nearest 0.01')		ft	VERIFY WELL	
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE	
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing V	olume (0.163)		ft	BELOW TO	
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)				gals	NEAREST 0.1'	
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm		Total V	olume Purged		gals	7 0.1	
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techi	nique Utiliz	ed (bailer, pum	p)			
Last Calibration (time)	0800	Last Verification √(time)		Well	Yield	Low	Medium	High		
Volume		Sumple								
Time (mil	itary) 1000									
pH	I (su) 5.28									
Spec Conductivity (m.	S/cm) 0,104									
Water Temperature	(°C) 18.6									
Turbidity (NTU) 21.2									
Dissolved Oxygen (n										
	Well Condition	n Information				Additiona	l Comments			
-overall condition accept			South	of 51/0	behind	rusident	Ova \			
-well cap accept			house.							
-manhole and cover accep	table?				100.00					
-well pad accep										
-area	safe?									
-other com	ments									

TER	-				Services	<u>S</u>			Summervil	P.O. Box 25 le, SC 29484 00-325-0605	
	Sit	e Specific	Informatio	n			Monitoring	Well Inform	ation		
Terry Proje	ct ID		217	71.9A			Well II	02314 -	MW 16	MW 16	
SCDHEC Permi	it No.		02	2314				DEED A	DTEV Nonh MTDE 12 F		
Project 1	Vame		Winds	sor Mart		Te	sting Parameter	BTEX, Naph, MTBE, 1,2-DCA			
	Date		1116	/20134					Oxygenates		
Field Perso	onnel		AIK S	JK			Well Diamete	r	in	101002	
General We	ather		去人		4		ft	TAG BOTTOM OF			
Ambient Air Temper	ature		63	5)	Total Well De	pth (nearest 0.1		ft	WELL TO	
		Quality As	ssurance			Depth to Groundwe	ter (nearest 0.01)	ft	VERIFY WELL	
pH Meter	Но	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2	Length	of Water Column	1	ft	DEPTH,	
Serial Number	VV	VKAUMKJ	s	Serial Number	VWKAUMKJ	1 Casin	ft	WRITE BELOW TO			
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3 Casing	Volumes (0.489)	gals	NEAREST 0.1'	
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm	Tota	l Volume Purge	t	gals	0.1	
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Technique U		2.2			
Last Calibration (time)		630	Last Verific	cation √(time)		Well Yield	Low	Medium High		20.3	
Volume	(gal)								T		
Time (mili	itary)										
pH	I (su)					. 1	(j.			
Spec Conductivity (mS	S/cm)					N	0 261	Nole			
Water Temperature	(°C)							1			
Turbidity (1	VTU)										
Dissolved Oxygen (n	0 /										
	l Condition	Informati	on			Addition	al Comment	ts			
-overall condition accept	table?										
-well cap accept	table?					Dry					
-manhole and cover accept	table?										
-well pad accept	table?										
-area	safe?										
-other com	ments										

TER	CLIEN	vironmental ,	Services	5					P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			Monitorin	g We	ll Informa		00 020 0000
Terry Proje	ect ID	2171.9A			Wel	ll ID	02314 -	MWIT	
SCDHEC Perm	it No.	02314					DODAY M	1 MEDE	2 DG4
Project 1	Name	Windsor Mart		1	Testing Parame	eters		oh, MTBE, 1	,2-DCA,
	Date	11/6/20134					,	Oxygenates	
Field Perso	onnel	AK, JK			Well Diam	eter	2	in	
General We	ather	65 Cloudy			Screened Inte	rval	10.4-20.4	ft	TAG BOTTOM OF
Ambient Air Temper	ature	65		Total Wel	ll Depth (nearest	0.1')	20.4	ft	WELL TO
	Quality A	ssurance		Depth to Groun	dwater (nearest 0	.01)	20.10	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Len	gth of Water Coli	umn	0.30	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Ca	asing Volume (0.	163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Cas	sing Volumes (0.	489)	111-11-77-11	gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	1	Total Volume Pur	rged		gals	1 0.1
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique	e Utilized (bailer,	pump)			2
Last Calibration (time)	1630	Last Verification √(time)	-	Well Yield	d Low [\square M	ledium 🗆	High 🗆	20,4
Volume	(gal)								
Time (mil	itary)								
pH	H (su)								
Spec Conductivity (m.	S/cm)								
Water Temperature									
Turbidity (NTU)								
Dissolved Oxygen (n	ng/L)								
	Well Condition	n Information			Additi	onal	Comments		
-overall condition accep	table?			Well	was pro	ctica	lly dry	- only	2 Vials
-well cap accep	table?			colle	eted				
-manhole and cover accep	table?								
-well pad accep	table?								
2 12	safe?								
-other com	ments								

P.O. Box 25 **ERRY** Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9A Well ID 02314 - MW 18 SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Project Name Windsor Mart **Testing Parameters** Oxygenates Date 11/6/20134 Field Personnel AK, JK Well Diameter in TAG General Weather Screened Interval ft 14.6-24.6 воттом ог WELL TO Ambient Air Temperature Total Well Depth (nearest 0.1') 24.6 ft VERIFY Depth to Groundwater (nearest 0.01') Quality Assurance ft 19.74 WELL DEPTH, pH Meter Horiba U-52-2 Conductivity Meter Horiba U-52-2 Length of Water Column 4-86 ft WRITE VWKAUMKJ Serial Number VWKAUMKJ 1 Casing Volume (0.163) 0.79 ft Serial Number BELOW TO NEAREST Calibration Constant 4.00 Calibration Constant 4.49 mS/cm 3 Casing Volumes (0.489) 2.37 gals 0.1' 6.86 53.0 mS/cm Total Volume Purged Calibration Constant Calibration Constant gals Purge Technique Utilized (bailer, pump) Calibration Constant 9.18 58.7 mS/cm Calibration Constant 24.6 Last Calibration (time) High Last Verification √(time) Well Yield Low | Medium 1630 Volume (gal) Int 1650 Time (military) 1654 4.29 4.32 pH (su) Spec Conductivity (mS/cm) 0.194 0.094 0.092 0.088 23.1 23.1 Water Temperature (°C) 23.2 23.1 448 463 Turbidity (NTU) 347 411 Dissolved Oxygen (mg/L) 4.10 4.09 4.04 Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

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TER	R	YEn CLIENT	vironn S FIRST ALWA	ental ,	Services	5					P.O. Box 25 le, SC 29484 00-325-0605
	Sit	e Specific I	Information	n			N	Ionitoring W	Vell Inforn		
Terry Proje	ct ID		217	1.9A				Well ID		MW-19	
SCDHEC Permi	t No.		02	314					DWDM 1		* DC+
Project N	Vame		Winds	or Mart		1	Test	ing Parameters	BIEX,	Naph, MTBE, 1	,2-DCA,
	Date		11/61	2013 4						Oxygenates	
Field Perso	onnel		A14,	JK				Well Diameter	2	in	
General Wes	ather		Clove	Jy			Sc	reened Interval	12.3-22	.3 ft	TAG BOTTOM OF
Ambient Air Tempere	ature		65)		Total	Well Dept	th (nearest 0.1')	22.3	ft	WELL TO
		Quality As	surance			Depth to Gr	oundwate	r (nearest 0.01')	16.32	ft	VERIFY WELL
pH Meter	Hor	riba U-52-2	Condi	uctivity Meter	Horiba U-52-2		Length of	Water Column	5.98	ft	DEPTH, WRITE
Serial Number				erial Number	VWKAUMKJ			Volume (0.163)	0.97	ft	BELOW TO
Calibration Constant		4.00	Calibration Constant		4.49 mS/cm	3 Casing Volumes (0.489			2.91	gals	NEAREST 0.1'
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm	Total Volume Purge			3	gals	V.1
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Techn	22.3				
Last Calibration (time)	i	630	Last Verific	vation $\sqrt{\text{(time)}}$		Well	Yield	Low 🗆	Medium	□ High □	-2.5
Volume	(gal)	Int	1	2	3	Sample	/				
Time (mili	itary)	1705	1707	1709	1711	' /					
pH	(su)	4.38	4.44	4.51	4.55						
Spec Conductivity (mS	S/cm)	0.159	0.166	0.16)	0.159						
Water Temperature	(°C)	24.1	23.8	23.8	23.8						
Turbidity (?	VTU)	142	322	318	328						
Dissolved Oxygen (n		2.51	1.35	2.76	2.65	/					
	Well Condition Information							Additiona	l Commer	its	
-overall condition accept	-overall condition acceptable?					MI	W 19	Dug @ 1	713		
-well cap accept	table?	ĭ									
-manhole and cover accept	able?										
-well pad accept	table?										
-area	safe?	V									
-other com	ments		Z.111.								

TER		CLIEN	IS FIRST ALW	AYS	Service	<u>s</u>					P.O. Box 25 lle, SC 29484 300-325-0605
		e Specific	Informatio	n				Monitoring V	Vell Informa		00 020 0000
Terry Proje	ect ID		21	71.9A				Well ID		MW 20	
SCDHEC Perm	it No.		0.	2314						-	1507_552555
Project 1	Vame		Wind	sor Mart		1	Te	sting Parameters	35 107	oh, MTBE, 1	,2-DCA,
	Date		11/6	/20134						Oxygenates	
Field Perso	onnel		AK,	JK				Well Diameter	2	in	
General We	ather		Clous	la la				Screened Interval	12.2-22.2	ft	TAG BOTTOM OF
Ambient Air Temper	ature		65)		Total	l Well De	pth (nearest 0.1')	22.2	ft	WELL TO
		Quality A.	ssurance			Depth to G	roundwa	ter (nearest 0.01')	16.63	ft	VERIFY WELL
pH Meter	Ho	riba U-52-2	Cond	luctivity Meter	Horiba U-52-2		Length o	of Water Column	5.57	ft	DEPTH,
Serial Number	50/11/11/1000 17/1				VWKAUMKJ	CJ 1 Casing Volume (0.1			0.91	ft	WRITE BELOW TO
Calibration Constant		4.00	1.00 Calibration Constant 4.49 mS/cm				3 Casing	Volumes (0.489)	2.73	gals	NEAREST 0.1'
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm	Total Volume Purge			3	gals	1 0.1
Calibration Constant		9.18		tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer) pur			p)		22.2
Last Calibration (time)		1630	Last Verific	cation √(time)	-	Well	Yield	Low 🗆	Medium	High	
Volume	(gal)	Int	1	2	3	Sample	1				
Time (mili	itary)	1724	1726	1728	1730	- /					
pH	l (su)	4.76	4.49	4.53	4.44						
Spec Conductivity (mS	S/cm)	0.150	0.133	0134	0.129						
Water Temperature	(°C)	24.3	24.2	24.2	24.2						
Turbidity (1	,	202	398	422	431						
Dissolved Oxygen (n		2.99	3.22	3. 26	3.29						
	Well	Condition	Informati	on				Additiona	l Comments		
-overall condition accept	able?	y									
-well cap accept	able?										
-manhole and cover accept	able?										
-well pad accept	able?										
-area	safe?	V									
-other com	ments										

TER		CLIENT	'S FIRST ALWA	YS —	Services	5				Summervill	P.O. Box 25 e, SC 29484 00-325-0605
		e Specific I	Information				M	lonitoring W	ell Informat	ion	
Terry Proje	ct ID		217	1.9A				Well ID	02314 -	MW 16	,
SCDHEC Permi	it No.		02	314					DTEV No.	L MTDE 1	2 DC4
Project N	Vame			sor Mart			Testi	ng Parameters		h, MTBE, 1. enates, Ethar	
	Date		11/19	/2014					Oxygo	mates, Ethai	101
Field Perso	onnel		AK					Well Diameter	2	in	TAG
General Wes	ather		Partly	Claudy			Scr	eened Interval	26-16	ft	BOTTOM OI
Ambient Air Temper	ature		25)			Total	Well Depti	h (nearest 0.1')	26.0	ft	WELL TO VERIFY
		Quality As	ssurance			Depth to Gr	oundwater	(nearest 0.01')	21.50	ft	WELL
pH Meter	Hor	riba U-52-2	Condi	uctivity Meter	Horiba U-52-2	9	Length of	Water Column	4.5	ft	DEPTH, WRITE
Serial Number	VW	KAUMKJ	s	erial Number	VWKAUMKJ		1 Casing V	olume (0.163)	0.73	ft	BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing Vo	olumes (0.489)	2.19	gals	NEAREST 0.1'
Calibration Constant		6.86			53.0 mS/cm		Total V	olume Purged	3	gals	
Calibration Constant		9.18	Calibration Constant		58.7 mS/cm	Purge Technique Utilized (bailer, pun		1	-		26.0
Last Calibration (time)	0	90>	Last Verific	cation √(time)	_	Well	Yield	Low	Medium 🗆	High □	26.0
Volume	(gal)	IN	1	2	3	Sumplo 1				1. 10. 10.	
Time (mili	itary)	0924	0926	0928	0930	1/					
pH	l (su)	5-43	4.61	4.55	4.52						
Spec Conductivity (mS	S/cm)	0.130	0.099	0.097	0.095						
Water Temperature	(°C)	19.3	18.4	18.4	184						
Turbidity (NTU)	232	374	387	386						
Dissolved Oxygen (n	0 ,	6.35	5.02	4.31	4.29						
	Well	Condition	Informati	on				-	l Comments	450	
-overall condition accept	table?	4				MW	16	Dup +	Ikan @ 2	932	
-well cap accept	table?	1						,			
-manhole and cover accept	table?										
-well pad accept	table?										
-area	safe?	V									
-other com	ments										

		S FIRST ALWA	AYS —	Services	5					P.O. Box 2: lle, SC 29484 00-325-060
S	ite Specific I	nformatio	n			Mo	nitoring W	ell Informa		
Terry Project I.	D	217	71.9A				Well ID	02314 -	MWZ	_
SCDHEC Permit No	o.	02	2314							
Project Nam	e	Winds	sor Mart		1	Testin	g Parameters		oh, MTBE, 1	10
Dat	e	217	/2015					Oxyg	enates, Etha	nol
Field Personne	el .	JK				И	ell Diameter	7.	in	
General Weathe	r	Cles	5			Scree	ened Interval	237-137	ft	TAG BOTTOM OI
Ambient Air Temperatur	e	51	0		Total We		(nearest 0.1')	2317	ft	WELL TO
	Quality As	surance			Depth to Grou	ndwater	(nearest 0.01')	16.55	ft	VERIFY WELL
pH Meter 1	Ioriba U-52-2	Cond	uctivity Meter	Horiba U-52-2	Lei	ngth of W	ater Column	7.15	ft	DEPTH,
Serial Number	WKAUMKJ	S	Serial Number	VWKAUMKJ	10	Casing Vo	lume (0.163)	1117	ft	WRITE BELOW TO
Calibration Constant	4.00	Calibra	tion Constant	4.49 mS/cm	3 Casing Volumes (0.489)		3,51	gals	NEAREST 0.1'	
Calibration Constant	6.86	Calibra	tion Constant	53.0 mS/cm	Total Volume Purged		lume Purged	3,75	gals	1 0.1
Calibration Constant	9.18	Calibra	tion Constant	58.7 mS/cm	Purge Techniqu	ue Utilize	d (bailer, pum))		72-1
Last Calibration (time)	1345. 1	Last Verific	cation $\sqrt{\text{(time)}}$		Well Yie	ld	Low 🗆	Medium	High	0511
Volume (ga	Initial	1.75	2.30	3,75						
Time (militar)	1807	1810	1813	18110						
pH (su	107010701	160H	605	6.01						1
Spec Conductivity (mS/cm	10,100	0.111	01172	0.114						
Water Temperature (°C	0,191	1,0:5	1,05	1,05						
Turbidity (NTU	79,7	515	500	496						
Dissolved Oxygen (mg/L	3,01	5.02	4.22	4119						
W	ell Condition	Information	on				Additiona	l Comments	J	
-overall condition acceptable	?	Je S								
-well cap acceptable	?	01								
-manhole and cover acceptable	?	v /								
-well pad acceptable	?	1								
-area safe	?	1/1								
-other commen	ts									

TER		CLIENT	'S FIRST ALWA	YS —	Services	5						Summervill	P.O. Box 2: le, SC 29484 00-325-060
		e Specific I	Information	n			Ι	Monitorii	ng W	Vell Info	rmai	tion	
Terry Proje	ect ID		217	1.9A				We	ll ID	02	314 -	MWZ	7
SCDHEC Permi	it No.		02	314						DTEN	N	1 ACEDE 1	2 DG4
Project 1	Name			or Mart			Tes	ting Param	eters		2.0	oh, MTBE, 1 enates, Ethar	
	Date		412	/2015						,	JAygo	mates, Ethai	101
Field Perso	onnel		JK					Well Dian	neter	~		in	T1.0
General We	ather		Cle	is			Se	creened Inte	erval	12-22,	0	ft	TAG BOTTOM OI
Ambient Air Temper	ature		5	5		Total	Well Dep	oth (nearest	0.1')	22.	0	ft	WELL TO VERIFY
		Quality As	surance			Depth to Gr	roundwat	er (nearest l	0.01')	14.	65	ft	WELL
pH Meter	Ho	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	f Water Col	umn	713	35	ft	DEPTH, WRITE
Serial Number	VV	VKAUMKJ	S	erial Number	VWKAUMKJ		1 Casing	Volume (0.	163)	1.13	1	ft	BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing 1	Volumes (0.	489)	3.5	7	gals	NEAREST 0.1'
Calibration Constant	tion Constant 6.86		Calibra	tion Constant	53.0 mS/cm		Total	Volume Pu	rged	317	5	gals	
Calibration Constant			Calibration Constant 58.7 mS/cm Purge Technique Utilized (ball			lized (bailer,	, pum	p)			ZZ. 0		
Last Calibration (time)		345	Last Verific	ation √(time)		Well	Yield	Low		Medium	M	High 🗆	LLIV
Volume	(gal)	Initial	t, 25	7.50	3.75	15amp	le.						
Time (mili	itary)	1735	1738	1741	1744	1							
pH	I (su)	5136	4,77	4.71	4,69								
Spec Conductivity (m.S	S/cm)	0,091	0.036	0:087	0.080								
Water Temperature	(°C)	18,6	70.0	20.0	20.0								
Turbidity (?	NTU)	9210	411	428	433								
Dissolved Oxygen (n		8:53	7.14	6,79	5.83								
	Well	l Condition	Information	on				Additi	iona	l Comm	ents		
-overall condition accept	table?		be	5									
-well cap accept	table?		01										
-manhole and cover accept	table?		- 1										
-well pad accept	table?												
-area	safe?		U										
other com	mante												

I ER		ENVIRONY ENTS FIRST ALW		Services	5						Summervil	le, SC 29484 00-325-0605
	Site Speci	ic Informatio	n				1onitor	ing W	Vell Info	rmat		00-323-0603
Terry Proje		-	71.9A					Vell ID		314 -		7 7
SCDHEC Permi	it No.		2314									
Project 1			lsor Mart			Test	ing Para	meters			h, MTBE, 1	
	Date		/2015						· ·	Oxyge	enates, Ethai	nol
Field Perso	onnel		K				Well Die	ımeter	ح		in	
General We	ather		ear			Sc	reened In		7117	-11.7	ft	TAG BOTTOM OI
Ambient Air Temper	ature	50)		Total	Well Dep	th (neare	st 0.1')	7		ft	WELL TO
	Qualit	Assurance			Depth to G	roundwate	er (neares	t 0.01')	13,	17.	ft	VERIFY WELL
pH Meter	Horiba U-52	2 Cone	ductivity Meter	Horiba U-52-2		Length of	Water C	olumn	7,4	3	ft	DEPTH,
Serial Number	VWKAUMK	J	Serial Number	VWKAUMKJ		1 Casing			117	.2	ft	WRITE BELOW TO
Calibration Constant	nstant 4.00		ation Constant	4.49 mS/cm	3 Casing Volumes (0.489			0.489)	316		gals	NEAREST 0.1'
Calibration Constant	6.86	6.86 Calibration Constant		53.0 mS/cm		Total Volume Purge			3,7	5	gals	1 0.1
Calibration Constant	9.18			58.7 mS/cm	Purge Techi	nique Utili	ized (bail	er, pum				117
Last Calibration (time)	1345	Last Verif	ication √(time)	_	Well	Yield	Low		Medium	Ø	High \square	21.2
Volume	(gal) Znit	251 10	2,50	3,75	15mm	M						
Time (mil	itary) 175	1854	1757	1800	1							
pH.	1 (su) 418		4,66	4,62								
Spec Conductivity (m.	S/cm) 0.0	54 0,041	0,044	0.045								
Water Temperature	(°C) 181	7 1914	1914	1914								
Turbidity (NTU) 30 v	373	334	392				,				
Dissolved Oxygen (n	ng/L) 3100	2,93	2.79	3,11								
	Well Condi	tion Informat	ion				Add	itiona	l Comm	ents		
-overall condition accept	table?	M	5									
-well cap accep	table?		/									
-manhole and cover accep-	table?	V				1117-1						
-well pad accept	table?	1										
-area	-well pad acceptable?											

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-other comments

TER		NTS FIRST ALW	AYS —	Services	5					Summervil	P.O. Box 2: le, SC 29484 00-325-060
	Site Specific	Informatio	n			1	Monitoring	Well Infor	matie	on	
Terry Proje	ct ID	21	71.9A				Well I	D 02:	314 -	MINIZ	24
SCDHEC Permi	t No.	0:	2314					DEEDA			
Project N	Name	Wind	sor Mart		1	Tes	ting Parameter	20		, MTBE, 1	
	Date	217	/2015						xygen	ates, Etha	101
Field Perso	onnel	TK					Well Diamete	r Z		in	100000
General Wee	ather	Cla	cs			Se	creened Interve	1 21-11		ft	TAG BOTTOM O
Ambient Air Tempere	ature	(01)		Total	Well Dep	oth (nearest 0.1	21.0		ft	WELL TO
	Quality A	Issurance			Depth to Gr	oundwate	er (nearest 0.01	1715	4	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Cona	luctivity Meter	Horiba U-52-2	1	Length of	f Water Colum	2 1		ft	DEPTH,
Serial Number	VWKAUMKJ		Serial Number	VWKAUMKJ		1 Casing	Volume (0.163			ft	WRITE BELOW TO
Calibration Constant	4.00	Calibro	ation Constant	4.49 mS/cm	3	Casing 1	Volumes (0.489) 411		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibra	Calibration Constant		Total Volume Purged			d 4,5		gals	0.1
Calibration Constant	9.18	Calibration Constant		58.7 mS/cm	Purge Techn	ique Util	ized (builer, pu				
Last Calibration (time)	1345.	Last Verifi	cation √(time)		Well 1	Vield .	Low 🗆	Medium	R	High 🗆	2110
Volume	(gal) Inijo	115	3.0	45	/samp	le					
Time (mili	itary) 1630	1652	16.35	16.38	/ 7						
pН	(su) 7.76	6.70	6165	6,63							
Spec Conductivity (mS	(cm) 1,53	0.060	0,064	5.062							
Water Temperature	(C) MIH	18.5	18,9	18.9							
Turbidity (1		481	509	520							
Dissolved Oxygen (m	1g/L) 3.06	4,70	5,35	8.49							
	Well Conditio	n Informati	on				Addition	al Comme	ents		
-overall condition accept	able?										
-well cap accept	able?										
-manhole and cover accept	able?										
-well pad accept	able?									7.7	
-area	safe?										
other com	wante										

TER		CLIENT	S FIRST ALWA	1YS	Services	<u>S</u>				Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	_	e Specific I					М	onitoring W	ell Informat		
Terry Proje	ect ID		217	71.9A				Well ID	02314 -	MWZ	5
SCDHEC Perm	it No.		02	2314					BTEX, Nap		
Project i				sor Mart			Testin	ng Parameters		enates, Etha	
	Date		212	/2015					O Ny B	onaco, Dina	101
Field Pers			JK					Well Diameter	7	in	TAG
General We				la			Scre	eened Interval	21-11	ft	воттом оғ
Ambient Air Temper	ature			5		Total	Well Depth	(nearest 0.1')	71.0	ft	WELL TO VERIFY
		Quality As	surance			Depth to Gr	oundwater	(nearest 0.01')	13,00	ft	WELL
pH Meter	Ho	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of V	Water Column	8,00	ft	DEPTH, WRITE
Serial Number	VW	VKAUMKJ	S	Serial Number	VWKAUMKJ		1 Casing V	olume (0.163)	1,30	ft	BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing Vo	olumes (0.489)	3,90	gals	NEAREST 0.1'
Calibration Constant		6.86 Calibration Constant 53		53.0 mS/cm		Total Volume Purged		415	gals	v	
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Techi	nique Utiliz	ed (bailer, pum	p)		2110
Last Calibration (time)		1345	Last Verific	cation √(time))	Well	Yield	Low	Medium 🖳	High □	CITO
Volume	(gal)	Initial	115	3.0	415						
Time (mil	itary)	1700	1703	1706	1709						
pI	I (su)	7,09	6.73	6180	6,77						
Spec Conductivity (m.	S/cm)	0,100	0,081	0.083	01083						
Water Temperature	e (°C)	20,7	15,7	1917	19,7						1
Turbidity (NTU)	64,7	386	399	411						
Dissolved Oxygen (r		3.02	4,12	5,00	4,50						
	Well	l Condition	Information	on				Additiona	l Comments		
-overall condition accep	table?		Ul	5							
-well cap accep	table?		1								
-manhole and cover accep	table?										
-well pad accep	table?										
-area	safe?										
-other com	ments			ч							

TER	RYEN	vironn es first alw	nental ,	Services	5							P.O. Box 25 lle, SC 29484 300-325-0605
	Site Specific	Informatio	n			N	1onitori	ing W	ell Info	rmat	ion	
Terry Proje			71.9A				W	ell ID	02	314 -	MWZ	C
SCDHEC Permi	it No.	02	2314									
Project 1	Vame	Wind	sor Mart			Test	ing Paran	neters			h, MTBE, 1	
	Date	212	/2015						,	Jxyge	enates, Etha	HOI
Field Perso	onnel	了人					Well Dia	meter	7		in	m. c
General We	ather	clea	5			Sc	reened In	terval	10:4-	20,4	ft	TAG BOTTOM OF
Ambient Air Temper	ature	50			Total	Well Dept	th (neares	st 0.1')	20,	4	ft	WELL TO
E	Quality A.	ssurance			Depth to Gr	oundwate	r (nearest	0.01')	12,2	4	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water Co	lumn	8:16		ft	DEPTH, WRITE
Serial Number	VWKAUMKJ] s	Serial Number	VWKAUMKJ		1 Casing	Volume (0	0.163)	1,3	3	ft	BELOW TO
Calibration Constant	4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing V	olumes (l	0.489)	3,90	Í	gals	NEAREST 0.1'
Calibration Constant	n Constant 6.86		tion Constant	53.0 mS/cm	Total Volume Purge			urged	415		gals] "
Calibration Constant	9.18			58.7 mS/cm	Purge Techn	ique Utili	ized (baile	r, pumj	p)	-67 11		2014
Last Calibration (time)	1345.	Last Verific	cation $\sqrt{\text{(time)}}$		Well	Yield	Low		Medium	X	High 🗆	2017
Volume	(gal) Inition	115	3.0	415	15ampl	1						
Time (mili		1854	1857	1900	, ,							
pH	I (su) 7, 35	6.67	6,64	6,63								
Spec Conductivity (m.S.	S/cm) 0, 186	0,109	Dill	01112								
Water Temperature	(°C) 18,0	19.7	19.7	1917								
Turbidity (1	VTU) 42,6	319	331	322								
Dissolved Oxygen (n	ng/L) 3 19	4.66	4.45	3,77								
	Well Condition	ı Informati	on				Addi	tiona	l Comm	ents		
-overall condition accept	table?	1115)									
-well cap accept	table?	711										
-manhole and cover accept	table?	V										
-well pad accept	table?		/									
-area	safe?											
-other com	ments											

TER	CLIENT	vironmental ts first always	Services	5			Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			Monitoring V	Vell Informa	tion	
Terry Proje	ect ID	2171.9A			Well ID	02314	- MW)7	1
SCDHEC Perm	it No.	02314						
Project ?	Vame	Windsor Mart] :	Testing Parameters		oh, MTBE, 1 enates, Ethan	
1.4	Date	て 7 /2015				Oxyg	chates, Ethai	.101
Field Perso	onnel	JK			Well Diameter	Z	in	TIC
General We		clear			Screened Interval	20-10	ft	TAG BOTTOM OI
Ambient Air Temper		45		Total Well 1	Depth (nearest 0.1')	2010	ft	WELL TO VERIFY
	Quality As	ssurance		Depth to Grounds	vater (nearest 0.01')	11.81	ft	WELL
pH Meter	Horiba U-52-2	Conductivity Mete	r Horiba U-52-2	Lengti	h of Water Column	2.19	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	r VWKAUMKJ	1 Casi	ng Volume (0.163)	1,33	ft	BELOW TO
Calibration Constant	4.00	Calibration Constan	t 4.49 mS/cm	3 Casin	g Volumes (0.489)	3,99	gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constan	t 53.0 mS/cm	To	tal Volume Purged	415	gals	0.1
Calibration Constant	9.18	Calibration Constan		Purge Technique	Utilized (bailer, pum	p)		10,0
Last Calibration (time)	1345.	Last Verification √(time) —	Well Yield	Low 🗆	Medium	High \square	-010
Volume	(gal) Initial	115 3:0	415	15angle	1			
Time (mili	itary) 9	1914 1917	1920	1				
pH	I (su) 7135	7,00 6,95	6,91	,				
Spec Conductivity (m.S	S/cm) 6,202	01166 0160	0,164					
Water Temperature		18.4 18.4	1814					
Turbidity (1	VTU) 23,8	286 301	791					
Dissolved Oxygen (n		4,90 5113	4.07					
	Well Condition	ı Information			Additiona	l Comments		
-overall condition accept	table?	VILS						
-well cap accept	table?	70						
-manhole and cover accept	table?	V						
-well pad accept	table?							
-area	safe?	V						
-other com	ments							

TER	CLIENT	vironmental property of the state of the sta	Services	<u>s</u>					P.O. Box 25 lle, SC 29484 300-325-0605
	Site Specific	Information			M	onitoring V	Vell Informa		
Terry Proje	ect ID	2171.9A				Well ID	02314 -	_	
SCDHEC Perm	it No.	02314							
Project 1	Name	Windsor Mart		1	Testin	ig Parameters	BTEX, Nar		
	Date	7 /7 /2015					Oxyg	enates, Etha	nol
Field Perso	onnel	2K			J	Well Diameter	7	in	
General We	ather	Clear			Scre	eened Interval	4916-4416	ft	TAG BOTTOM OF
Ambient Air Temper		50		Total	Well Depth	(nearest 0.1')	4916	ft	WELL TO
	Quality As	ssurance		Depth to Gr	roundwater	(nearest 0.01')	16:50	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of V	Vater Column	33,01	ft	DEPTH,
Serial Number					J Casing Volume (0.16			ft	WRITE BELOW TO
Calibration Constant	5 35 C				3 Casing Volumes (0.489) 1(0.14				NEAREST 0.1'
Calibration Constant	6.86				Total Ve	olume Purged	16,5	gals	1 0.1
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pump)					
Last Calibration (time)	1345	Last Verification √(time)			Yield	Low	Medium 🗡	High 🗆	4116
Volume	(gal) Initian	2.75 5.5	3,25	11.0	13,75	16015	Bam	Or	
Time (mil	itary) (834	1836 1838	1840	1842	1844	1846	/ /	7.0	
pH	1 (su) 3, 22	7,65 7,48	7,32	7,25	7,29	7,25	1		
Spec Conductivity (m.	S/cm) 0.322	88110 122:0	0169	0,165	01160	01158			
Water Temperature		19,7 19,9	18,3	18:1	18,1	1811			
Turbidity (1		114 122	90,0	57.4	55,6	5219			
Dissolved Oxygen (n		4.64 4.38	3,76	3,51	2.94	2,99			
	Well Condition Information					Additiona	l Comments	7	
-overall condition accept	table?	yes							
-well cap accept	table?			1	WZI	DUP-	1848		
-manhole and cover accept	table?	V							
-well pad accept	-well pad acceptable?								
-area	-area safe?								
-other com	-other comments								

ERRY Environmental Services P.O. Box 25 Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9A Well ID 02314 - DW SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Project Name Windsor Mart **Testing Parameters** Oxygenates, Ethanol Date /> /2015 Field Personnel Well Diameter in TAG General Weather Screened Interval .44.6 ft воттом он Ambient Air Temperature Total Well Depth (nearest 0.1') WELL TO ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 3,77 ft WELL DEPTH. 35,88 pH Meter Horiba U-52-2 Length of Water Column ft Conductivity Meter Horiba U-52-2 WRITE **VWKAUMKJ** Serial Number Serial Number VWKAUMK. 1 Casing Volume (0.163) 5.84 ft BELOW TO NEAREST Calibration Constant 4.00 Calibration Constant 4.49 mS/cm 3 Casing Volumes (0.489) gals 0.1 Calibration Constant Calibration Constant 6.86 53.0 mS/cm Total Volume Purged gals 58.7 mS/cm Purge Technique Utilized (bailer, pump) Calibration Constant 9.18 Calibration Constant Last Calibration (time) Medium | High | Last Verification √(time) Well Yield Low Volume (gal) 7.0 18.0 Time (military) pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) 15.0 Turbidity (NTU) Dissolved Oxygen (mg/L) Well Condition Information Additional Comments -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

Op 2





HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

ate/Time: 9/26/14 0805 Ins	pector: AK
Lot Number: 3A7638 Expiration	ion Date: 10/14
Instrument Reading	Accuracy
3.89	± 0.11
4.50 mS/cm	± 0.61 mS/cm
NTU	± o NTU
Instrument Reading	<u>Accuracy</u>
24.4 °C	± 0.3 °C
PP Acceptance Criteria	
<u>Accuracy</u>	
$\pm I$ °C against an NIS	T-traceable thermometer
10% of each standar	d used
± 0.2 pH units of state	ed buffer value
10% of each standar	ed used
etor's Maintenance Notes	
*	
	Lot Number: 3A5638 Expiration Instrument Reading 3.89 4.50 mS/cm NTU Instrument Reading 244 °C PP Acceptance Criteria Accuracy ±1°C against an NIS 10% of each standar ±0.2 pH units of state 10% of each standar



HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: <u>VWKAUMKJ</u> D	Date/Time: 4/26/14 1010	Inspector: AK
Solution Manufacturer: Aurical	Lot Number:	Expiration Date:
Solution Value	Instrument Reading	<u>Accuracy</u>
pH: 4.00	3.97	± 0.03
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.0 \ mS/cm
Turbidity: 0.0 NTU	NTU	± Ø NTU
Standard Reading	Instrument Readi	ing <u>Accuracy</u>
NIST-Traceable Thermometer: 24.3 °C	24.7 °C	± 0.4 °C
QA	APP Acceptance Criteria	
<u>Field Parameter</u>	Ac	ecuracy
Temperature	±1°C agai	inst an NIST-traceable thermometer
Specific Conductance	10% of eac	ch standard used
pH	±0.2 pH us	nits of stated buffer value
Turbidity	10% of eac	ch standard used
Inspe	ector's Maintenance Not	es



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 9. 29.14 /113	Inspector: JK
Solution Manufacturer: Aurical	Lot Number: 3AJ638	Expiration Date: 10/14
Solution Value	Instrument Reading	<u>Accuracy</u>
<i>pH</i> : 4.00	3,99	± 0.01
Conductivity: 4.49 mS/cm	4.52 mS/cm	± 0.03 mS/cm
Turbidity: 0.0 NTU	O·O_NTU	± O⋅O NTU
Standard Reading	<u>Instrument Read</u>	ing <u>Accuracy</u>
NIST-Traceable Thermometer:C	_ ZZ.4 °C	± -9 · 0 °C
2	QAPP Acceptance Criteria	
Field Parameter	<u>Ac</u>	curacy
Temperature	±1°C agai	nst an NIST-traceable thermometer
Specific Conductance	10% of each	ch standard used
pH	$\pm 0.2~pH$ un	nits of stated buffer value
Turbidity	10% of eac	ch standard used
In	spector's Maintenance Not Windsor Murt	es

Wirelson Mart	
	•



HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: <u>VWKAUMKJ</u> D	Date/Time: 9.29.14/153	Inspector: JK
Solution Manufacturer: <u>Aurical</u>	Lot Number: 3A3638	Expiration Date: 10/14
Solution Value	Instrument Reading	<u>Accuracy</u>
pH: 4.00	4.02	± Ø ⋅ Ø ₹
Conductivity: 4.49 mS/cm	<u>4.47</u> mS/cm	± 0.02mS/cm
Turbidity: 0.0 NTU	O · O NTU	± Ø·♡ NTU
Standard Reading	Instrument Readi	ng <u>Accuracy</u>
NIST-Traceable Thermometer: ZZ-Z °C	_72-7 °C	± <i>O</i> - <i>O</i> ∘ <i>C</i>
QA	APP Acceptance Criteria	
Field Parameter	<u>Ac</u>	<u>curacy</u>
Temperature	±1°C agai	nst an NIST-traceable thermometer
Specific Conductance	10% of eac	ch standard used
рН	±0.2 pH ui	nits of stated buffer value
Turbidity	10% of eac	ch standard used
Inspe	ector's Maintenance Not Windsor Mast	es



HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Date/Time: 9-29-14/1700 Ins	pector:
Lot Number: 3A5638 Expirati	ion Date:
Instrument Reading	Accuracy
4.03	± 0.03
4.47 mS/cm	± 0.07 mS/cm
U, NTU	± O. NTU
Instrument Reading	<u>Accuracy</u>
<u>77.0</u> ℃	± 0.0°C
APP Acceptance Criteria	
<u>Accuracy</u>	
±1°C against an NI	ST-traceable thermometer
10% of each standa	rd used
±0.2 pH units of sta	ted buffer value
10% of each standa	rd used
pector's Maintenance Notes Windsor Mart	
	Lot Number: 3A\$ Expirat Instrument Reading 4.03 4.41 mS/cm D.1 NTU Instrument Reading 27.0 °C APP Acceptance Criteria Accuracy ±1°C against an NII 10% of each standa ±0.2 pH units of sta 10% of each standa



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 11/6/14 1630	Inspector:_	AK
Solution Manufacturer: <u>Aurical</u>	Lot Number: 4AH149	Expiration Date:	08/2015
Solution Value	Instrument Reading		Accuracy
pH: 4.00	4.00		± 0
Conductivity: 4.49 mS/cm	4.50 mS/cm		± 0.01 mS/cm
Turbidity: 0.0 NTU	NTU		± O NTU
Standard Reading	<u>Instrument Read</u>	ing	<u>Accuracy</u>
NIST-Traceable Thermometer: 24.4 °C	24.6 °C	ū	± 0.2 °C
Q	APP Acceptance Criteria		
Field Parameter	Ac	ecuracy	
Temperature	±1°C agai	inst an NIST-tracea	ble thermometer
Specific Conductance	10% of ea	ch standard used	
рН	$\pm 0.2~pH~u$	nits of stated buffer	value
Turbidity	10% of ea	ch standard used	

Inspector's Maintenance Notes Window Mart 2171.9A		
Winder Nat	2171.9A	



HORIBA U-52-2 DAILY VERIFICATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 11/6/14 1740	Inspector: AK
Solution Manufacturer: Aurical	Lot Number: 4AH949	Expiration Date: 08/2015
Solution Value	Instrument Reading	<u>Accuracy</u>
pH: 4.00	4.01	± 0.01
Conductivity: 4.49 mS/cm	<u>9.51</u> mS/cm	± 0.02 mS/cm
Turbidity: 0.0 NTU	NTU	± O NTU
Standard Reading	Instrument Reading	<u>Accuracy</u>
NIST-Traceable Thermometer: 24.3 °C	24.5 ℃	± 0.2 °C
Q.	APP Acceptance Criteria	
Field Parameter	Accu	racy
Temperature	± 1 °C agains	t an NIST-traceable thermometer
Specific Conductance	10% of each	standard used
рН	$\pm 0.2~pH$ unit	s of stated buffer value
Turbidity	10% of each	standard used
Insp	ector's Maintenance Notes Windson Mart 2171, 9	

Thermometer:

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Inspector: Ak Serial Number: <u>VWKAUMKJ</u> Date/Time: 11/19/2014 Ofo

Lot Number: 4AH949 Expiration Date: 08/2015 Solution Manufacturer: Aurical Solution Value Instrument Reading Accuracy 4.00 pH: 4.00 ± 0.01 mS/cm 4.50 Conductivity: 4.49 mS/cm mS/cm NTU Turbidity: 0.0 NTU O.O NTU

Accuracy Standard Reading Instrument Reading NIST-Traceable ± (). \ °C $^{\circ}C$

QAPP Acceptance Criteria

Field Parameter Accuracy ± 1 °C against an NIST-traceable thermometer Temperature 10% of each standard used Specific Conductance ±0.2 pH units of stated buffer value pH10% of each standard used **Turbidity**

	Inspector's Maintenance Notes			
				A STATE OF THE STA
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P.O. Box 25 Summerville, SC 29484 1-800-325-0605

2171.9A

Windsor Mart

HORIBA U-52-2 DAILY-CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u> Date/Time: <u>11/19/2015</u> O945 Inspector: AK

Solution Manufacturer:AuricalLot Number: $\frac{4A+944}{4A+944}$ Expiration Date: $\frac{08/2015}{2015}$ Solution ValueInstrument ReadingAccuracypH: 4.00 \pm 0.00 \pm 0.00Conductivity: 4.49 mS/cm \pm 0.00 mS/cm \pm 0.00 mS/cmTurbidity: 0.0 NTU \pm 0.1 NTU \pm 0.1 NTU

NIST-Traceable
Thermometer: 20.2 °C Instrument Reading Accuracy

Line Instrument Reading Accuracy

Accuracy

Line Instrument Reading Accuracy

± 0.2 °C

QAPP Acceptance Criteria

Field Parameter	<u>Accuracy</u>
Temperature	± 1 °C against an NIST-traceable thermometer
Specific Conductance	10% of each standard used
pH	± 0.2 pH units of stated buffer value
Turbidity	10% of each standard used

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Inspector's Maintenance Notes



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u> I	Date/Time: 2.2/5/1545	Inspector:_	JK
Solution Manufacturer: Aurical	Lot Number: 4AH949	Expiration Date:	8/15
Solution Value	Instrument Reading	4	<u>Accuracy</u>
pH: 4.00	4.02	:	50,0°
Conductivity: 4.49 mS/cm	4,5D mS/cm	:	$\pm O_i O (mS/cm)$
Turbidity: 0.0 NTU	O.O NTU		± OtONTU
Standard Reading	<u>Instrument Readi</u>	ing .	Accuracy
NIST-Traceable Thermometer:	_/7.1_ °C	, :	±0.1°c
QA	APP Acceptance Criteria		
Field Parameter	<u>Ac</u>	<u>curacy</u>	
Temperature	±1°C agai	nst an NIST-traceal	ble thermometer
Specific Conductance	10% of ea	ch standard used	
pH	±0.2 pH us	nits of stated buffer	value
Turbidity	10% of ea	ch standard used	
Inspe	ector's Maintenance Not Windsor Must 21-27 DW 2-3	es	



HORIBA U-52-2 DAILY VERIFICATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u> D	Date/Time: <u>Z-Z-15/194</u> 0	Inspector: JK
Solution Manufacturer: Aurical	Lot Number: 4414949	Expiration Date: 8/15
Solution Value	Instrument Reading	<u>Accuracy</u>
pH: 4.00	4.07	± 0.07
Conductivity: 4.49 mS/cm	4,55 mS/cm	± 0, ComS/cm
Turbidity: 0.0 NTU	UTN_OIT	± OıZ NTU
Standard Reading	Instrument Readin	g <u>Accuracy</u>
NIST-Traceable Thermometer:	15,6°C	±0,7 ℃
QA	PP Acceptance Criteria	
Field Parameter	Acci	uracy
Temperature	±1°C agains	st an NIST-traceable thermometer
Specific Conductance	10% of each	standard used
pH	$\pm 0.2~pH$ uni	ts of stated buffer value
Turbidity	10% of each	standard used
Inspe	ctor's Maintenance Notes	

Report of Analysis

Terry Environmental Services, Inc.

1753 North Main Street Summerville, SC 29483 Attention: Travis Darden

Project Name: Windsor Mart

Project Number: 2171.9A

Lot Number: PG21012
Date Completed: 07/29/2014

Kelly M. Maberry
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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SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: PG21012

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

Sample Summary Terry Environmental Services, Inc.

Lot Number: PG21012

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314-SB1	Aqueous	07/14/2014 1240	07/19/2014
002	02314-SB2	Aqueous	07/14/2014 1310	07/19/2014
003	02314-SB3	Aqueous	07/14/2014 1337	07/19/2014
004	02314-SB4	Aqueous	07/14/2014 1400	07/19/2014
005	02314-SB5	Aqueous	07/14/2014 1420	07/19/2014
006	02314-SB6	Aqueous	07/14/2014 1500	07/19/2014
007	02314-SB7	Aqueous	07/14/2014 1535	07/19/2014
800	02314-SB8	Aqueous	07/14/2014 1745	07/19/2014
009	02314-SB9	Aqueous	07/14/2014 1810	07/19/2014
010	02314-SB10	Aqueous	07/14/2014 1840	07/19/2014
011	02314-SB11	Aqueous	07/14/2014 1100	07/19/2014
012	02314-SB12	Aqueous	07/14/2014 1140	07/19/2014
013	02314-SB13	Aqueous	07/14/2014 1212	07/19/2014
014	02314-SB14	Aqueous	07/14/2014 1248	07/19/2014
015	02314-SB1D55	Aqueous	07/14/2014 1425	07/19/2014
016	02314-SB1D50	Aqueous	07/14/2014 1435	07/19/2014
017	02314-SB1D45	Aqueous	07/14/2014 1445	07/19/2014
018	02314-SB1D55	Aqueous	07/14/2014 1610	07/19/2014
019	02314-SB2D50	Aqueous	07/14/2014 1620	07/19/2014
020	02314-SB2D45	Aqueous	07/14/2014 1630	07/19/2014
021	02314-SB3D55	Aqueous	07/14/2014 1735	07/19/2014
022	02314-SB3D50	Aqueous	07/14/2014 1745	07/19/2014
023	02314-SB3D45	Aqueous	07/14/2014 1755	07/19/2014

(23 samples)

Executive Summary Terry Environmental Services, Inc.

Lot Number: PG21012

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	02314-SB1	Aqueous	Benzene	8260B	0.24	J	ug/L	6
001	02314-SB1	Aqueous	Toluene	8260B	0.33	J	ug/L	6
004	02314-SB4	Aqueous	Benzene	8260B	32		ug/L	9
004	02314-SB4	Aqueous	Ethylbenzene	8260B	2.4		ug/L	9
004	02314-SB4	Aqueous	Naphthalene	8260B	3.9		ug/L	9
004	02314-SB4	Aqueous	Toluene	8260B	26		ug/L	9
004	02314-SB4	Aqueous	Xylenes (total)	8260B	100		ug/L	9
005	02314-SB5	Aqueous	Benzene	8260B	360		ug/L	10
005	02314-SB5	Aqueous	Ethylbenzene	8260B	49		ug/L	10
005	02314-SB5	Aqueous	Naphthalene	8260B	39		ug/L	10
005	02314-SB5	Aqueous	Toluene	8260B	320		ug/L	10
005	02314-SB5	Aqueous	Xylenes (total)	8260B	1100		ug/L	10
007	02314-SB7	Aqueous	Benzene	8260B	0.42	J	ug/L	12
007	02314-SB7	Aqueous	Toluene	8260B	0.82	J	ug/L	12
800	02314-SB8	Aqueous	Benzene	8260B	5300		ug/L	13
800	02314-SB8	Aqueous	Ethylbenzene	8260B	800		ug/L	13
800	02314-SB8	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	160		ug/L	13
800	02314-SB8	Aqueous	Naphthalene	8260B	140		ug/L	13
800	02314-SB8	Aqueous	Toluene	8260B	10000		ug/L	13
800	02314-SB8	Aqueous	Xylenes (total)	8260B	3300		ug/L	13
009	02314-SB9	Aqueous	Benzene	8260B	850		ug/L	14
009	02314-SB9	Aqueous	Ethylbenzene	8260B	7.7		ug/L	14
009	02314-SB9	Aqueous	Naphthalene	8260B	25		ug/L	14
009	02314-SB9	Aqueous	Toluene	8260B	96		ug/L	14
009	02314-SB9	Aqueous	Xylenes (total)	8260B	790		ug/L	14
010	02314-SB10	Aqueous	Benzene	8260B	0.19	J	ug/L	15
010	02314-SB10	Aqueous	Toluene	8260B	0.49	J	ug/L	15
013	02314-SB13	Aqueous	Benzene	8260B	160		ug/L	18
013	02314-SB13	Aqueous	Ethylbenzene	8260B	29		ug/L	18
013	02314-SB13	Aqueous	Naphthalene	8260B	4.8	J	ug/L	18
013	02314-SB13	Aqueous	Toluene	8260B	440		ug/L	18
013	02314-SB13	Aqueous	Xylenes (total)	8260B	110		ug/L	18
014	02314-SB14	Aqueous	Benzene	8260B	1300		ug/L	19
014	02314-SB14	Aqueous	Ethylbenzene	8260B	130		ug/L	19
014	02314-SB14	Aqueous	Naphthalene	8260B	39		ug/L	19
014	02314-SB14	Aqueous	Toluene	8260B	1400		ug/L	19
014	02314-SB14	Aqueous	Xylenes (total)	8260B	1400		ug/L	19
015	02314-SB1D55	Aqueous	Benzene	8260B	7.2		ug/L	20
015	02314-SB1D55	Aqueous	Ethylbenzene	8260B	1.8		ug/L	20
015	02314-SB1D55	Aqueous	Toluene	8260B	27		ug/L	20
015	02314-SB1D55	Aqueous	Xylenes (total)	8260B	7.6		ug/L	20
016	02314-SB1D50	Aqueous	Benzene	8260B	4.8		ug/L	21
016	02314-SB1D50	Aqueous	Ethylbenzene	8260B	1.2		ug/L	21
016	02314-SB1D50	Aqueous		8260B	18		ug/L	21
016	02314-SB1D50	Aqueous	Xylenes (total)	8260B	4.9		ug/L	21
		-						

Executive Summary (Continued)

Lot Number: PG21012

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
017	02314-SB1D45	Aqueous	Benzene	8260B	0.44	J	ug/L	22
017	02314-SB1D45	Aqueous	Toluene	8260B	2.6		ug/L	22
017	02314-SB1D45	Aqueous	Xylenes (total)	8260B	1.4		ug/L	22
018	02314-SB1D55	Aqueous	Toluene	8260B	0.33	J	ug/L	23
019	02314-SB2D50	Aqueous	Benzene	8260B	0.13	J	ug/L	24
019	02314-SB2D50	Aqueous	Toluene	8260B	0.36	J	ug/L	24
021	02314-SB3D55	Aqueous	Benzene	8260B	34		ug/L	26
021	02314-SB3D55	Aqueous	Ethylbenzene	8260B	2.9		ug/L	26
021	02314-SB3D55	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.55	J	ug/L	26
021	02314-SB3D55	Aqueous	Toluene	8260B	54		ug/L	26
021	02314-SB3D55	Aqueous	Xylenes (total)	8260B	13		ug/L	26
022	02314-SB3D50	Aqueous	Benzene	8260B	48		ug/L	27
022	02314-SB3D50	Aqueous	Ethylbenzene	8260B	5.2		ug/L	27
022	02314-SB3D50	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.89	J	ug/L	27
022	02314-SB3D50	Aqueous	Toluene	8260B	85		ug/L	27
022	02314-SB3D50	Aqueous	Xylenes (total)	8260B	25		ug/L	27
023	02314-SB3D45	Aqueous	Benzene	8260B	21		ug/L	28
023	02314-SB3D45	Aqueous	Ethylbenzene	8260B	2.1		ug/L	28
023	02314-SB3D45	Aqueous	Toluene	8260B	30		ug/L	28
023	02314-SB3D45	Aqueous	Xylenes (total)	8260B	8.4		ug/L	28

(65 detections)

Description: 02314-SB1

Date Sampled:07/14/2014 1240 Date Received: 07/19/2014

Laboratory ID: PG21012-001

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		•	nalyst Prep PMM2	Date Bar 524			
Parameter		C/ Numb	AS Analytica er Method	Daguile	Q PQI	_ MDL	Units	Run
Benzene		71-43	3-2 8260E	3 0.24	J 1.0	0.13	ug/L	1
Ethylbenzene		100-41	-4 8260E	B ND	1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04	-4 8260E	B ND	1.0	0.40	ug/L	1
Naphthalene		91-20)-3 8260E	B ND	1.0	0.40	ug/L	1
Toluene		108-88	-3 8260	3 0.33	J 1.0	0.33	ug/L	1
Xylenes (total)		1330-20)-7 8260E	ND	1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 Ac Recovery	cceptance Limits					
1,2-Dichloroethane-d4		99	70-130					
Bromofluorobenzene		110	70-130					
Toluene-d8		107	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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Description: 02314-SB2

Date Sampled:07/14/2014 1310 Date Received: 07/19/2014

Run Prep Method

Toluene

Xylenes (total)

Laboratory ID: PG21012-002

Batch

1.0

1.0

Matrix: Aqueous

0.33

0.33

ug/L

ug/L

1

1

Volatile Organic Compounds by GC/MS

Analyst

8260B

8260B

Prep Date

ND

ND

Analytical Method Dilution Analysis Date

108-88-3

1330-20-7

1	5030B	8260B	1 07/25/2	2014 2141 PMN	/12	52415			
Paramete	er		CAS Number	Analytical Method	Result	Q PQL	MDL	Units	Run
Benzene			71-43-2	8260B	ND	1.0	0.13	ug/L	1
Ethylbenz	ene		100-41-4	8260B	ND	1.0	0.33	ug/L	1
Methyl ter	tiary butyl ether (MTBE)		1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthale	ene		91-20-3	8260B	ND	1.0	0.40	ug/L	1

Surrogate	Q		Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		106	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"

Description: 02314-SB3
ate Sampled: 07/14/2014 13

Run Prep Method

Date Sampled:07/14/2014 1337 Date Received: 07/19/2014 Laboratory ID: PG21012-003

Batch

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Analytical Method Dilution Analysis Date Analyst Prep Date

1 5030B	5030B 8260B		1 07/25/2014 2202 PMM2			52415				
Parameter		CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run		
Benzene		71-43-2	8260B	ND	1.0	0.13	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		Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		105	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

 $ND = Not \ detected \ at \ or \ above \ the \ MDL \qquad J = Estimated \ result < PQL \ and \ge MDL \qquad P = The \ RF \ Where \ applicable, \ all \ soil \ sample \ analysis \ are \ reported \ on \ a \ dry \ weight \ basis \ unless \ flagged \ with \ a \ "W"$

P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria

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Description: 02314-SB4

Date Sampled:07/14/2014 1400 Date Received: 07/19/2014

Laboratory ID: PG21012-004

Matrix: Aqueous

Volatile Organic Compounds by GC/MS Method Dilution Analysis Date Analyst Prep Date

Run Prep Method 1 5030B	Analytical Method 8260B		sis Date Analy 2014 2223 PMN	•	Batch 52415			
Parameter		CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
Benzene		71-43-2	8260B	32	1.0	0.13	ug/L	1
Ethylbenzene		100-41-4	8260B	2.4	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	3.9	1.0	0.40	ug/L	1
Toluene		108-88-3	8260B	26	1.0	0.33	ug/L	1
Xylenes (total)		1330-20-7	8260B	100	1.0	0.33	ug/L	1
Surrogate		Run 1 Accept Recovery Limi						
1,2-Dichloroethane-d4		98 70-1	30					
Bromofluorobenzene		108 70-1	30					
Toluene-d8		105 70-1	30					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time J = Estimated result < PQL and \geq MDL P = The RPD between two GC columns exceeds 40%

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" N = Recovery is out of criteria

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Level 1 Report v2.1

Description: 02314-SB5

Date Sampled:07/14/2014 1420 Date Received: 07/19/2014

Laboratory ID: PG21012-005

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Method Dilution Analysis Date Analyst Prep Date

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis 1 07/26/2014	-	•	Batch 52415			
Parameter		C Numl		Analytical Method	Result Q	PQL	MDL	Units	Run
Benzene		71-4	3-2	8260B	360	5.0	0.66	ug/L	1
Ethylbenzene		100-4	1-4	8260B	49	5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND	5.0	2.0	ug/L	1
Naphthalene		91-2	0-3	8260B	39	5.0	2.0	ug/L	1
Toluene		108-8	8-3	8260B	320	5.0	1.7	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	1100	5.0	1.7	ug/L	1
Surrogate	Q %	Run 1 A Recovery	cceptand Limits	e					
1,2-Dichloroethane-d4		98	70-130						
Bromofluorobenzene		109	70-130						
Toluene-d8		108	70-130						

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 \geq 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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Description: 02314-SB6

Run Prep Method

Date Sampled:07/14/2014 1500 Date Received: 07/19/2014

Laboratory ID: PG21012-006

Batch

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Analytical Method Dilution Analysis Date Analyst Prep Date

1	5030B	8260B	1 07/25/2	014 2244 PM	/12	52415			
Paramet	er		CAS Number	Analytical Method	Result (Q PQL	MDL	Units	Run
Benzene			71-43-2	8260B	ND	1.0	0.13	ug/L	1
Ethylbenz	zene		100-41-4	8260B	ND	1.0	0.33	ug/L	1
Methyl te	rtiary butyl ether (MTBE)		1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthal	ene		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 A % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL

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

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Description: 02314-SB7

Date Sampled:07/14/2014 1535 Date Received: 07/19/2014

Laboratory ID: PG21012-007

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date 7/25/2014 230	-	•	Date	Batch 52415			
Parameter		C/ Numb	•	ytical thod	Result	Q	PQL	MDL	Units	Run
Benzene		71-43	3-2 8	260B	0.42	J	1.0	0.13	ug/L	1
Ethylbenzene		100-41	-4 8	260B	ND		1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04	-4 8	260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-20)-3 8	260B	ND		1.0	0.40	ug/L	1
Toluene		108-88	-3 8	260B	0.82	J	1.0	0.33	ug/L	1
Xylenes (total)		1330-20)-7 8	260B	ND		1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 Ac	cceptance Limits							
1,2-Dichloroethane-d4		98	70-130							
Bromofluorobenzene		109	70-130							
Toluene-d8		104	70-130							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the 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"

Level 1 Report v2.1

Description: 02314-SB8

Date Sampled:07/14/2014 1745 Date Received: 07/19/2014

Laboratory ID: PG21012-008

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	07/26/2014 0255	PMM2		52415
2	5030B	8260B	200	07/28/2014 1100	EH1		52510

Parameter		O Num		Analytic Metho	Danul	t Q	PQL	MDL	Units	Run
Benzene		71-4	3-2	8260	DB 5300	0	50	6.6	ug/L	1
Ethylbenzene		100-4	1-4	8260	DB 80	0	50	17	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260	DB 16	0	50	20	ug/L	1
Naphthalene		91-2	20-3	8260	DB 14	0	50	20	ug/L	1
Toluene		108-8	8-3	8260	DB 1000	0	200	66	ug/L	2
Xylenes (total)		1330-2	20-7	8260	OB 3300	0	50	17	ug/L	1
Surrogate	Q	Run 1 A % Recovery	Acceptanc Limits	e Q	Run 2 / % Recovery	Acceptan Limits	ce			
1,2-Dichloroethane-d4		99	70-130		106	70-130)			
Bromofluorobenzene		109	70-130		111	70-130)			
Toluene-d8		109	70-130		106	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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Description: 02314-SB9

Date Sampled:07/14/2014 1810 Date Received: 07/19/2014

Laboratory ID: PG21012-009

Matrix: Aqueous

Volatile Organic Compounds by GC/MS Method Dilution Analysis Date Analyst Prep Date

Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date Analy 26/2014 0316 PMM	•	Batch 52415			
Parameter		CA Numbe	•	Result Q	PQL	MDL	Units	Run
Benzene		71-43-	2 8260B	850	5.0	0.66	ug/L	1
Ethylbenzene		100-41-	4 8260B	7.7	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	25	5.0	2.0	ug/L	1
Toluene		108-88-	3 8260B	96	5.0	1.7	ug/L	1
Xylenes (total)		1330-20-	7 8260B	790	5.0	1.7	ug/L	1
Surrogate	Q %		ceptance Limits					
1,2-Dichloroethane-d4		98	70-130					
Bromofluorobenzene		108	70-130					
Toluene-d8		107	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 \geq 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"

Level 1 Report v2.1

Description: 02314-SB10 Date Sampled:07/14/2014 1840 Date Received: 07/19/2014

Laboratory ID: PG21012-010

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis 07/25/201	-	•	Date	Batch 52415			
Parameter		C Num	CAS ber	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene		71-4	13-2	8260B	0.19	J	1.0	0.13	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND		1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND		1.0	0.40	ug/L	1
Toluene		108-8	38-3	8260B	0.49	J	1.0	0.33	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 A	Acceptan Limits	ce						
1,2-Dichloroethane-d4		100	70-130							
Bromofluorobenzene		109	70-130							
Toluene-d8		105	70-130							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

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Description: 02314-SB11 Date Sampled:07/14/2014 1100 Date Received: 07/19/2014

Toluene-d8

Laboratory ID: PG21012-011

Matrix: Aqueous

V	olatile	Organic	Com	pounds	by	/ GC/MS
---	---------	---------	-----	--------	----	---------

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis I 7/25/2014	•	•	Batch 52415			
Parameter		C Numl		Analytical Method	Result (Q PQL	MDL	Units	Run
Benzene		71-4	3-2	8260B	ND	1.0	0.13	ug/L	1
Ethylbenzene		100-4	1-4	8260B	ND	1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene		91-2	0-3	8260B	ND	1.0	0.40	ug/L	1
Toluene		108-88	8-3	8260B	ND	1.0	0.33	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	ND	1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 A Recovery	cceptanc Limits	е					
1,2-Dichloroethane-d4		97	70-130						
Bromofluorobenzene		107	70-130						

70-130

104

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 \geq 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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Description: 02314-SB12 Date Sampled:07/14/2014 1140 Date Received: 07/19/2014

Laboratory ID: PG21012-012

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Metho 82601		•	s Date Analy 14 0008 PMN	•	Batch 52415			
Parameter		Num	CAS nber	Analytical Method	Result Q	PQL	MDL	Units	Run
Benzene		71-4	43-2	8260B	ND	1.0	0.13	ug/L	1
Ethylbenzene		100-4	41-4	8260B	ND	1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND	1.0	0.40	ug/L	1
Toluene		108-8	38-3	8260B	ND	1.0	0.33	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 /	Accepta Limit						
1,2-Dichloroethane-d4		98	70-13	30					
Bromofluorobenzene		109	70-13	80					
Toluene-d8		103	70-13	80					

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"

Level 1 Report v2.1

Description: 02314-SB13 Date Sampled:07/14/2014 1212 Date Received: 07/19/2014

Laboratory ID: PG21012-013

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Metho 8260		•	is Date Analy 014 0337 PMM	•	Date	Batch 52415			
Parameter			CAS mber	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene		71	-43-2	8260B	160		5.0	0.66	ug/L	1
Ethylbenzene		100-	-41-4	8260B	29		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	4.8	J	5.0	2.0	ug/L	1
Toluene		108-	-88-3	8260B	440		5.0	1.7	ug/L	1
Xylenes (total)		1330	-20-7	8260B	110		5.0	1.7	ug/L	1
Surrogate	Q	Run 1 % Recovery	Accepta Limit							
1,2-Dichloroethane-d4		98	70-1	30						
Bromofluorobenzene		107	70-1	30						
Toluene-d8		107	70-1	30						

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"

Level 1 Report v2.1

Description: 02314-SB14 Date Sampled:07/14/2014 1248 Date Received: 07/19/2014

Laboratory ID: PG21012-014

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	07/26/2014 0358	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	1300		20	2.6	ug/L	1
Ethylbenzene	100-41-4	8260B	130		20	6.6	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		20	8.0	ug/L	1
Naphthalene	91-20-3	8260B	39		20	8.0	ug/L	1
Toluene	108-88-3	8260B	1400		20	6.6	ug/L	1
Xylenes (total)	1330-20-7	8260B	1400		20	6.6	ug/L	1

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

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

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Description: 02314-SB1D55 Date Sampled:07/14/2014 1425 Date Received: 07/19/2014

Laboratory ID: PG21012-015

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	Analysi : 07/26/20	•		Date	Batch 52415			
Parameter			CAS nber	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene		71-	-43-2	8260B	7.2		1.0	0.13	ug/L	1
Ethylbenzene		100-	41-4	8260B	1.8		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	27		1.0	0.33	ug/L	1
Xylenes (total)		1330-	-20-7	8260B	7.6		1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 Recovery	Acceptar Limits							
1,2-Dichloroethane-d4		98	70-13	0						
Bromofluorobenzene		109	70-13	0						
Toluene-d8		107	70-13	0						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time J = Estimated result < PQL and \geq MDL P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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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"

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Description: 02314-SB1D50 Date Sampled:07/14/2014 1435 Date Received: 07/19/2014

Laboratory ID: PG21012-016

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		alysis Date Analy 26/2014 0050 PMN	•	Batch 52415			
Parameter		CA: Numbe	•	Result Q	PQL	MDL	Units	Run
Benzene		71-43-2	2 8260B	4.8	1.0	0.13	ug/L	1
Ethylbenzene		100-41-4	8260B	1.2	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	18	1.0	0.33	ug/L	1
Xylenes (total)		1330-20-	7 8260B	4.9	1.0	0.33	ug/L	1
Surrogate	Q %		eptance imits					
1,2-Dichloroethane-d4		98	70-130					
Bromofluorobenzene		108	70-130					
Toluene-d8		108	70-130					

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time

N = Recovery is out of criteria

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Level 1 Report v2.1

Description: 02314-SB1D45 Date Sampled:07/14/2014 1445 Date Received: 07/19/2014

Laboratory ID: PG21012-017

Matrix: Aqueous

Volatile Organic Compounds by GC/MS Method Dilution Analysis Date Analyst Prep Date

Run Prep Method 1 5030B	Analytical Metho 8260		Analysis 07/26/201	-	•	ate	Batch 52415			
Parameter		Num	CAS nber	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene		71-4	43-2	8260B	0.44	J	1.0	0.13	ug/L	1
Ethylbenzene		100-4	41-4	8260B	ND		1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND		1.0	0.40	ug/L	1
Toluene		108-8	38-3	8260B	2.6		1.0	0.33	ug/L	1
Xylenes (total)		1330-	20-7	8260B	1.4		1.0	0.33	ug/L	1
Surrogate	Q 9	Run 1 / % Recovery	Acceptan Limits	ce						
1,2-Dichloroethane-d4		98	70-130							
Bromofluorobenzene		108	70-130)						
Toluene-d8		106	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 \geq MDL P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: 02314-SB1D55 Date Sampled: 07/14/2014 1610 Date Received: 07/19/2014

Laboratory ID: PG21012-018

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		alysis Date Analy 26/2014 0131 PMN	•	te Batch 52415			
Parameter		CA: Numbe	•	Result Q	PQL	MDL	Units	Run
Benzene		71-43-2	2 8260B	ND	1.0	0.13	ug/L	1
Ethylbenzene		100-41-4	4 8260B	ND	1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	4 8260B	ND	1.0	0.40	ug/L	1
Naphthalene		91-20-3	3 8260B	ND	1.0	0.40	ug/L	1
Toluene		108-88-3	8260B	0.33 J	1.0	0.33	ug/L	1
Xylenes (total)		1330-20-	7 8260B	ND	1.0	0.33	ug/L	1
Surrogate	Q %		ceptance _imits					
1,2-Dichloroethane-d4		98	70-130					•
Bromofluorobenzene		109	70-130					
Toluene-d8		106	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"

Level 1 Report v2.1

Description: 02314-SB2D50 Date Sampled:07/14/2014 1620 Date Received: 07/19/2014

Laboratory ID: PG21012-019

Matrix: Aqueous

Volatile Organic Compounds by GC/MS Analytical Method Dilution Analysis Date Analyst Prep Date

Run Prep Method 1 5030B	Analytical Method 8260B		alysis Date Analy 26/2014 0152 PMN	•	te Batch 52415			
Parameter		CAS Number	•	Result C	PQL	MDL	Units	Run
Benzene		71-43-2	8260B	0.13 J	1.0	0.13	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	0.36 J	1.0	0.33	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND	1.0	0.33	ug/L	1
Surrogate	Q %		eptance .imits					
1,2-Dichloroethane-d4		99	70-130					
Bromofluorobenzene		109	70-130					
Toluene-d8		107	70-130					

PQL = Practical quantitation limit

Shealy Environmental Services, Inc.

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range J = Estimated result < PQL and \geq MDL P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

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"

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Description: 02314-SB2D45 Date Sampled: 07/14/2014 1630 Date Received: 07/19/2014

Laboratory ID: PG21012-020

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date Analy /26/2014 0213 PMN	•	Batch 52415			
Parameter		CA Numbe	•	Result Q	PQL	MDL	Units	Run
Benzene		71-43-	-2 8260B	ND	1.0	0.13	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 %		ceptance Limits					
1,2-Dichloroethane-d4		98	70-130					
Bromofluorobenzene		108	70-130					
Toluene-d8		107	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 N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Description: 02314-SB3D55 Date Sampled:07/14/2014 1735 Date Received: 07/19/2014

Laboratory ID: PG21012-021

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Meth 826		-	i s Date Analy 014 1848 ALL	•	Date	Batch 52428			
Parameter			CAS nber	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene		71-	-43-2	8260B	34		1.0	0.13	ug/L	1
Ethylbenzene		100-	-41-4	8260B	2.9		1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBI	≣)	1634	-04-4	8260B	0.55	J	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	54		1.0	0.33	ug/L	1
Xylenes (total)		1330	-20-7	8260B	13		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Accepta Limit							
1,2-Dichloroethane-d4		97	70-13	30						
Bromofluorobenzene		110	70-13	30						
Toluene-d8		104	70-13	30						

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"

Level 1 Report v2.1

Description: 02314-SB3D50 Date Sampled:07/14/2014 1745 Date Received: 07/19/2014

Laboratory ID: PG21012-022

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis 07/26/20	-	•	Date	Batch 52428			
Parameter		Num	CAS nber	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene		71-4	43-2	8260B	48		1.0	0.13	ug/L	1
Ethylbenzene		100-4	41-4	8260B	5.2		1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBI	≣)	1634-	04-4	8260B	0.89	J	1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND		1.0	0.40	ug/L	1
Toluene		108-8	88-3	8260B	85		1.0	0.33	ug/L	1
Xylenes (total)		1330-	20-7	8260B	25		1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 A	Acceptar Limits							
1,2-Dichloroethane-d4		96	70-130	0						
Bromofluorobenzene		108	70-13	D						
Toluene-d8		107	70-130	0						

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

Description: 02314-SB3D45 Date Sampled:07/14/2014 1755 Date Received: 07/19/2014

Laboratory ID: PG21012-023

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

						,	
Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/28/2014 112	:0 EH1		52510

Parameter	CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	21	1.0	0.13	ug/L	1
Ethylbenzene	100-41-4	8260B	2.1	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	30	1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	8.4	1.0	0.33	ug/L	1
	Run 1 Accent	ance				J	

Surrogate	Q		Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit

Shealy Environmental Services, Inc.

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL **QC Summary**

Sample ID: PQ52415-001 Batch: 52415

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	1.0	0.13	ug/L	07/25/2014 2059
Ethylbenzene	ND		1	1.0	0.33	ug/L	07/25/2014 2059
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/25/2014 2059
Naphthalene	ND		1	1.0	0.40	ug/L	07/25/2014 2059
Toluene	ND		1	1.0	0.33	ug/L	07/25/2014 2059
Xylenes (total)	ND		1	1.0	0.33	ug/L	07/25/2014 2059
Surrogate	Q % Re		Acceptance Limit				
Bromofluorobenzene	108		70-130				
1,2-Dichloroethane-d4	100		70-130				
Toluene-d8	110		70-130				

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ52415-002

Batch: 52415

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	49	1	97	70-130	07/25/2014 1935
Ethylbenzene	50	49	1	99	70-130	07/25/2014 1935
Methyl tertiary butyl ether (MTBE)	50	51	1	101	70-130	07/25/2014 1935
Naphthalene	50	40	1	80	70-130	07/25/2014 1935
Toluene	50	50	1	99	70-130	07/25/2014 1935
Xylenes (total)	100	100	1	101	70-130	07/25/2014 1935
Surrogate	Q % Rec	Acceptance Limit	•			
Bromofluorobenzene	110	70-130				
1,2-Dichloroethane-d4	99	70-130				
Toluene-d8	108	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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Sample ID: PQ52415-003

Batch: 52415

Matrix: Aqueous 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	49	1	98	1.3	70-130	20	07/25/2014 1956
Ethylbenzene	50	49	1	99	0.16	70-130	20	07/25/2014 1956
Methyl tertiary butyl ether (MTBE)	50	51	1	102	0.57	70-130	20	07/25/2014 1956
Naphthalene	50	39	1	78	1.6	70-130	20	07/25/2014 1956
Toluene	50	51	1	102	2.5	70-130	20	07/25/2014 1956
Xylenes (total)	100	100	1	101	0.20	70-130	20	07/25/2014 1956
Surrogate	Q % Rec	Acceptanc Limit	e					
Bromofluorobenzene	109	70-130	•		•		•	
1,2-Dichloroethane-d4	98	70-130						
Toluene-d8	108	70-130						

Volatile Organic Compounds by GC/MS - MS

Sample ID: PG21012-014MS

Batch: 52415

Matrix: Aqueous 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
Benzene	1300	1000	2300		20	102	72-127	07/26/2014 0419
Ethylbenzene	130	1000	1200		20	105	79-132	07/26/2014 0419
Methyl tertiary butyl ether (MTBE)	ND	1000	1000		20	103	60-140	07/26/2014 0419
Naphthalene	39	1000	760		20	72	62-136	07/26/2014 0419
Toluene	1400	1000	2400		20	104	75-125	07/26/2014 0419
Xylenes (total)	1400	2000	3600		20	107	70-130	07/26/2014 0419
Surrogate	Q % Re		ceptance Limit					
1,2-Dichloroethane-d4	98		70-130		•		•	
Bromofluorobenzene	110		70-130					
Toluene-d8	108		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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Sample ID: PG21012-014MD

Batch: 52415

Matrix: Aqueous Prep Method: 5030B

Analytical Method:	8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPI	
Benzene	1300	1000	2300		20	95	3.0	72-127	20	07/26/2014 0440
Ethylbenzene	130	1000	1200		20	102	2.0	79-132	20	07/26/2014 0440
Methyl tertiary butyl ether (MTBE)	ND	1000	1000		20	102	0.60	60-140	20	07/26/2014 0440
Naphthalene	39	1000	770		20	73	1.2	62-136	20	07/26/2014 0440
Toluene	1400	1000	2300		20	98	2.3	75-125	20	07/26/2014 0440
Xylenes (total)	1400	2000	3500		20	101	3.0	70-130	20	07/26/2014 0440
Surrogate	Q % Re		ceptance Limit							
1,2-Dichloroethane-d4	97	•	70-130		•	•	•		•	
Bromofluorobenzene	107		70-130							
Toluene-d8	107		70-130							

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ52428-001

Batch: 52428

Matrix: Aqueous

Prep Method: 5030B Analytical Method: 8260B

Parameter	Result	Q	Dil PQL	MDL	Units	Analysis Date
Benzene	ND		1 1.0	0.13	ug/L	07/26/2014 1232
Ethylbenzene	ND		1 1.0	0.33	ug/L	07/26/2014 1232
Methyl tertiary butyl ether (MTBE)	ND		1 1.0	0.40	ug/L	07/26/2014 1232
Naphthalene	ND		1 1.0	0.40	ug/L	07/26/2014 1232
Toluene	ND		1 1.0	0.33	ug/L	07/26/2014 1232
Xylenes (total)	ND		1 1.0	0.33	ug/L	07/26/2014 1232
Surrogate	Q % Rec	Accepta Limi				
Bromofluorobenzene	109	70-1	30			
1,2-Dichloroethane-d4	98	70-1	30			
Toluene-d8	106	70-1	30			

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"

Sample ID: PQ52428-002

Batch: 52428

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	48	1	95	70-130	07/26/2014 1108
Ethylbenzene	50	49	1	97	70-130	07/26/2014 1108
Methyl tertiary butyl ether (MTBE)	50	49	1	98	70-130	07/26/2014 1108
Naphthalene	50	35	1	70	70-130	07/26/2014 1108
Toluene	50	51	1	101	70-130	07/26/2014 1108
Xylenes (total)	100	99	1	99	70-130	07/26/2014 1108
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	106	70-130				_
1,2-Dichloroethane-d4	98	70-130				
Toluene-d8	108	70-130				

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ52510-001

Batch: 52510 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	1.0	0.13	ug/L	07/28/2014 1039
Ethylbenzene	ND		1	1.0	0.33	ug/L	07/28/2014 1039
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/28/2014 1039
Naphthalene	ND		1	1.0	0.40	ug/L	07/28/2014 1039
Toluene	ND		1	1.0	0.33	ug/L	07/28/2014 1039
Xylenes (total)	ND		1	1.0	0.33	ug/L	07/28/2014 1039
Surrogate	Q % Rec		ptance imit				
Bromofluorobenzene	110	70)-130				
1,2-Dichloroethane-d4	103	70)-130				
Toluene-d8	106	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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Sample ID: PQ52510-002

Batch: 52510

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	52	1	103	70-130	07/28/2014 0914
Ethylbenzene	50	51	1	101	70-130	07/28/2014 0914
Methyl tertiary butyl ether (MTBE)	50	54	1	108	70-130	07/28/2014 0914
Naphthalene	50	50	1	100	70-130	07/28/2014 0914
Toluene	50	52	1	104	70-130	07/28/2014 0914
Xylenes (total)	100	100	1	102	70-130	07/28/2014 0914
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	106	70-130				_
1,2-Dichloroethane-d4	103	70-130				
Toluene-d8	107	70-130				

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ52510-003 Batch: 52510

Matrix: Aqueous 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	51	1	103	0.70	70-130	20	07/28/2014 0935
Ethylbenzene	50	51	1	102	1.0	70-130	20	07/28/2014 0935
Methyl tertiary butyl ether (MTBE)	50	54	1	109	1.0	70-130	20	07/28/2014 0935
Naphthalene	50	52	1	104	3.3	70-130	20	07/28/2014 0935
Toluene	50	51	1	103	0.65	70-130	20	07/28/2014 0935
Xylenes (total)	100	100	1	104	2.1	70-130	20	07/28/2014 0935
Surrogate	Q % Rec	Acceptanc Limit	e					
Bromofluorobenzene	110	70-130						
1,2-Dichloroethane-d4	102	70-130						
Toluene-d8	106	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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

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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

Number 35006

SHEALY ENVIRONMENTAL SERVICES, INC.

Client	Report to Co	ontact , .	77777.317	Sampler (Printed Name)	Quote No.
Glent Terry Environmental	Trav	is Dard	L~	Tyler Waterhorse	
P.O. Box 25		No. / Fax No. / Em		Waybiii No.	Page / of -3
City State Zip Code	Preserval	tive terryen	ironhuntal.com	1 	Number of Containers
City State Zip Code Summer ville SC 29484	1. Unpres.	4. HNO3 7. Na			Battle (See Instructions on back)
Project Name	2. NaOH/ZnA		3 3		Dent :
Windsor Mart	3. H2SO4	6. Na Thio.	T Q		開源開開 PG21012
Project Number P.O Num	ber	æ Matri	.	4	建筑多用源条件的
2171.9A		age Mail	S 2 6		PG21012
Sample ID / Description (Containers for each sample may be combined on one line)	Time	a g ew Dw ww			
02314-5B1 7HM	1240	GX	3 \$		
02314 · SB2	1310	111	1000		
02314-5B3	1337	\square	\perp \perp α		
02314-5134	1400				
02314-585	1420				
02314-5B6	1500				
02314 - SB7	1535				
02314 ~5B8	1745				
02314-SB9	1810				
02314-51310	1840	7 1	1 - 4		
Turn Around Time Required (Prior lab approval required 6	(TAT betibegse ro	Sample Disposal	QC Re	quirements (Specify) Possible Hazard	Identification
Standard p lius (Please Specify)		☐ Return to Client	ex.Disposal by Lab		ammable □Skin Irritant □Person □Unknown
1. Religoushed Campler		7/18/14	1330 1. Rec	eived by	Date Time
2. Relinquished by		Date	Time 2. Rec	elved by	Date Time
3. Relinquished by	-	Date	Time 3. Rec	elved by	Date Time
4. Relinquished by Fecl	.X	Date 7-19-14	Time 4. Lab	relary Received by	Date 7-19-19 Time 0836
Note: All samples are retain			eceipt LAB L	SE ONLY O Yes INO I Ice Pack Reco	7.00

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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

Number 35008

SHEALY ENVIRONMENTAL SERVICES, INC.

Client		Report to C	ontac	1	-					74411.31	San		Printe	d Name	9) /	,					Quote No.	
Terry Environmente		Tran	<u>`</u>	\mathcal{D}	ard	.^					17	yle	~	W.	te	rh.	use					
		Telephone	No. / I	Fax	No. / E	ma	1		11			Gill No).								Page	3
101	C4-	Farty Preserva	e H	my	enn	YO	hn	ur.	7-7-3		+	_	_	_	_			1	1	Т	Z (of Containers
	94 84	1. Unpres.		HNO	3 7.1	NaOl	н	Į.		4					+	+	+		structions on back			
Project Name		2. NaOH/ZnA		HOL					13	5	\pm									_	Pre	servative
Windsor Mart		3. H2SO4	6.	Na T	hio.	_					T		Т		Т						1000	
Project Number 2[71.9A	P.O Numbe	er	ab		Mat	rix		sis	1 3	-												21012
Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Sab	GW	Mar DW W	w s	Other	Analysis	PITE X.A.	1												121012
02314-51311	7/10/14	1100	4	×					1	3	\perp		1	_			1		_	_		
01314 - SB12		1140	1	1						1		_	_			_		_	_	1		
02314 - SB13		1212		$\ $					#													
02314 - SB14		1248	П	П																		
02314 - SBID55		1425	П	П	П		L	143														
02314 - 4BID50		1435		П				-50				\perp	_	1	_							
02314-581345		1445	П	П	Ц	1									\perp				\perp	1		
02314-531055		1610	11	Ш	Ш	1				Ц			1		1		_	_	1	-		
02314 - 5BZD500	Ц.	1620	1	Ц	Ш	1	1			1	_	1	1	1	1	\perp		_	4	\perp		
02314-5BZDY5		1630	1	1	1		L	1.0		1		1.									1	
Turn Around Time Required (Prior lab appro	val required for	expedited TAT			Dispos		_				equiren	ents (Speci	ify)	- 1		e Hazer				ent ⊓Poisor	□ Unknown
Standard - Rushiffease Specify			Date		r to Clier	_	ime	spesal	by Lat		beviso	ne .	-			Mon-H	zard 🗆	Da		Skin Imte	Time	Liurikiowii
T. Kentral St.	-		17	18	114		7	77	O			4									1	
2. Relinquished by			Dat		1 1	7	ime			2. Re	ceived	Эy						De	to		Time	
3. Relinquished by			Dat	9		1	Time	4		3. Re	ceived	by			.831E-			Da	te		Time	
4. Relinquished by	dex		Dat	e (9-14	1	Time O Ω	36	,	4. La	Kel	Rece	ived I	P.				08	ite - 19	-14	Time 93	6
Note: All samples	are retain		x we	eks	from	_		_		LAB	USE O	4/3		7			T				10000	/
unless a	ther arran	gements	are	ma	ade.	_			_	Recei	red on la	(theo	k) =	Yes C	No.	□ lœ P	ack Re	caipt Te	mp	<u>,2</u> .	C Temp. Bla	nk 🗆 Y / 🗩 N

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Chain of Custody Record

Shealy Environmental Services, Inc.

Tolephone No. (803) 791-9700 Fax No. (803) 791-9111

www.shealylab.com

Number 35010

SHEALY ENVIRONMENTAL SERVICES, INC.

lery Environmental	Report to Contact		Sampler (Printed Name)	1.1	Quote No.		
P.O. Box 25	Travis Davon Telephone No. / Fax No. / En tolar Oterry	nail	Waybill No.	y house	Page 3 of 3		
State Zip Code SC 29484 Toject Name	Preservative 1. Unpres. 4. HNO3 7. N 2. NaOH/ZnA 5. HCL	aOH &			Number of Containers Bottle (See Instructions on back) Preservative		
Vindsor Mart cject Number P.O Numl 171.94		ix xiNcx			PG21012		
Sample ID / Description (Containers for each sample may be combined on one line)	Time G GW DW WW				FGZ1012		
2314 - SB3055 7/10/1	41735 GX	3					
1314-5B3D50 1	1745						
2714-5B3A45	1755 1						
um Around Time Required (Prior lab approval required fo		d QC F	equirements (Specify)	Possible Hazard Identification	ant DPoison DUnknown		
Reinglished y / Sampler	Date 7/18/14		ceived by	Date	Time		
. Relimpuished by	Date		ceived by	Date	Time		
. Relinquished by	Date	Time 3. Re	ceived by	Date	Time		
. Relinquished by Fedex	Date 7-29-14	Time 4. La	poratory Received by	Dale 19-14	Time 830		
Note: All samples are retain	ned for six weeks from ingements are made.	receipt LAB	USE ONLY	14. (m)	C Temp Blank to Y / g/N		

Shealy Environmental Services, Inc. Document Number: F-AD-016 Revision Number: 15

Page 1 of 1 Replaces Date: 03/07/14 Effective Date: 07/15/14

Revision No		D-010		Reptaces Date: 0.3/07/ Effective Date: 0.7/15/
				Sample Receipt Checklist (SRC)
Client:	Terry	Envi	γ٥	nmen Cooler Inspected by/date: KWP /7-21-14 Lot #: PG21012
Means	of receipt	SE	SI	☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other
Yes	No Z		_	1. Were custody seals present on the cooler?
Yes	No	NA 2		2. If custody seals were present, were they intact and unbroken?
Cooler	D/Origin	al temper	ratu	re upon receipt/Derived (corrected) temperature upon receipt:
	3.1 / 3			/ // °C / / °C / / °C
		perature	Bla	
	of coolar			t Ice Blue Ice Dry Ice None
			3.	If temperature of any cooler exceeded 6.0°C, was Project Manager notified?
Yes 🗆	No 🗔	NA 🗹	1	PM notified by SRC, phone, note (circle one), other:
100 -				(For coolers received via commercial courier, PMs are to be notified
				immediately.)
Yes 🗹	Annual Control of the	NA 🗌	4.	Is the commercial courier's packing slip attached to this form?
Yes 🖊	No 🗆		5.	Were proper custody procedures (relinquished/received) followed?
The second secon	No [2	NA 🗆		5a Were samples relinquished by client to commercial courier?
Yes 🛮	No 🗌		6.	Were sample IDs listed on the COC?
Yes 🗷	No 🗌		7.	Were sample IDs listed on all sample containers?
Yes 🗹	№ □		8.	Was collection date & time listed on the COC?
Yes 🗹	No 🗆		9.	Was collection date & time listed on all sample containers?
Yes 🗸	No 🗌			Did all container label information (ID, date, time) agree with the COC?
Yes 🗾	№ 0 🗌		_	. Were tests to be performed listed on the COC?
Yes 🗸	No 🗌			2. Did all samples arrive in the proper containers for each test?
Yes 🗸				Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes 🗾	200.00			. Was adequate sample volume available?
		-		. Were all samples received within ½ the holding time or 48 hours, whichever
Yes 🗀	No Ø			comes first?
Yes 🗌	No 🗸	-		. Were any samples containers missing?
Yes 🗌	No Z			. Were there any excess samples not listed on COC?
Yes 🛮	No _	NA 🗌		. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes _	No	NA 🗸		. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes _	No 🗌	NA 📝		. Were all cyanide and/or sulfide samples received at a pH >12?
Yes 🗌	No 🗌	NA 🗆		. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes 🗌	No 🗌	NA 🖵	22	. Were collection temperatures documented on the COC for NC samples?
Yes 🗌	No [NA 🗆		. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations,
103		2	et) correctly transcribed from the COC into the comment section in LIMS?
Yes 🗌	No 🗆			. Was the quote number used taken from the container label?
	Preserva	ation (N	Aus	t be completed for any sample(s) incorrectly preserved or with headspace.)
Sample(were received incorrectly preserved and were adjusted
		mple rece		
		1) -010	013), ~ 6/1(3), -0/9(2), -0/80) vere received with bubbles >6 mm in diameter.
Sample(_	were received with TRC >0.2 mg/L (If #21 is No)
		er Projec		mple(s) pH verified to be > 2 by Date:
Sample(20 1 20 1		_	ere not received at a pH of <2 and were adjusted accordingly using SR#
The second second second	labels ap	plied by:		Verified by: Date: 7-21-14
Comment	_			
-020(3	1 - 0211	3),		

Report of Analysis

Terry Environmental Services, Inc. 1753 North Main Street Summerville, SC 29483 Attention: Tim Mettlen

Project Name: Windsor Mart

Project Number: 2171.9A

Lot Number: PJ02028

Date Completed: 10/09/2014

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.

PJ02028

SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc.

Lot Number: PJ02028

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.

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

Sample Summary Terry Environmental Services, Inc.

Lot Number: PJ02028

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314-MW2R	Aqueous	09/29/2014 1350	10/02/2014
002	02314-MW5	Aqueous	09/29/2014 1600	10/02/2014
003	02314-MW6	Aqueous	09/29/2014 1315	10/02/2014
004	02314-MW8	Aqueous	09/29/2014 1435	10/02/2014
005	02314-MW9	Aqueous	09/29/2014 1628	10/02/2014
006	02314-MW10	Aqueous	09/29/2014 1615	10/02/2014
007	02314-MW11	Aqueous	09/29/2014 1210	10/02/2014
800	02314-MW12	Aqueous	09/29/2014 1243	10/02/2014
009	02314-MW13	Aqueous	09/29/2014 1520	10/02/2014
010	02314-MW14	Aqueous	09/29/2014 1500	10/02/2014
011	02314-MW15	Aqueous	09/29/2014 1333	10/02/2014
012	02314-DW1	Aqueous	09/29/2014 1649	10/02/2014
013	02314-SW1	Aqueous	09/26/2014 0940	10/02/2014
014	02314-SW2	Aqueous	09/26/2014 1000	10/02/2014
015	02314-MW2R DUP	Aqueous	09/29/2014 1352	10/02/2014
016	02314-FB1	Aqueous	09/26/2014 0800	10/02/2014
017	02314-FB2	Aqueous	09/29/2014 1115	10/02/2014
018	02314-TB	Aqueous	09/29/2014	10/02/2014
019	02314-MW9	Solid	09/25/2014 1500	10/02/2014
020	02314-DW1	Solid	09/24/2014 1300	10/02/2014

(20 samples)

Executive Summary Terry Environmental Services, Inc.

Lot Number: PJ02028

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	02314-MW2R	Aqueous	tert-Amyl alcohol (TAA)	8260B	6900		ug/L	6
001	02314-MW2R	Aqueous	Benzene	8260B	6400		ug/L	6
001	02314-MW2R	Aqueous	Diisopropyl ether (IPE)	8260B	87	J	ug/L	6
001	02314-MW2R	Aqueous	Ethylbenzene	8260B	1600		ug/L	6
001	02314-MW2R	Aqueous	Naphthalene	8260B	330		ug/L	6
001	02314-MW2R	Aqueous	Toluene	8260B	18000		ug/L	6
001	02314-MW2R	Aqueous	Xylenes (total)	8260B	8800		ug/L	6
002	02314-MW5	Aqueous	Benzene	8260B	13		ug/L	7
002	02314-MW5	Aqueous	Ethylbenzene	8260B	16		ug/L	7
002	02314-MW5	Aqueous	Naphthalene	8260B	4.8		ug/L	7
002	02314-MW5	Aqueous	Toluene	8260B	110		ug/L	7
002	02314-MW5	Aqueous	Xylenes (total)	8260B	100		ug/L	7
003	02314-MW6	Aqueous	tert-Amyl alcohol (TAA)	8260B	60		ug/L	8
003	02314-MW6	Aqueous	Benzene	8260B	1.5		ug/L	8
003	02314-MW6	Aqueous	Ethylbenzene	8260B	2.6		ug/L	8
003	02314-MW6	Aqueous	Toluene	8260B	8.8		ug/L	8
003	02314-MW6	Aqueous	Xylenes (total)	8260B	21		ug/L	8
004	02314-MW8	Aqueous	tert-Amyl alcohol (TAA)	8260B	6700		ug/L	9
004	02314-MW8	Aqueous	Benzene	8260B	3700		ug/L	9
004	02314-MW8	Aqueous	Ethylbenzene	8260B	1300		ug/L	9
004	02314-MW8	Aqueous	Naphthalene	8260B	180	J	ug/L	9
004	02314-MW8	Aqueous	Toluene	8260B	12000		ug/L	9
004	02314-MW8	Aqueous	Xylenes (total)	8260B	7200		ug/L	9
005	02314-MW9	Aqueous	Benzene	8260B	0.51	J	ug/L	10
005	02314-MW9	Aqueous	Ethylbenzene	8260B	0.54	J	ug/L	10
005	02314-MW9	Aqueous	Toluene	8260B	3.0		ug/L	10
005	02314-MW9	Aqueous	Xylenes (total)	8260B	3.0		ug/L	10
800	02314-MW12	Aqueous	tert-Amyl alcohol (TAA)	8260B	51		ug/L	13
800	02314-MW12	Aqueous	Benzene	8260B	0.38	J	ug/L	13
800	02314-MW12	Aqueous	Xylenes (total)	8260B	5.0		ug/L	13
009	02314-MW13	Aqueous	tert-Amyl alcohol (TAA)	8260B	5400		ug/L	14
009	02314-MW13	Aqueous	Benzene	8260B	6400		ug/L	14
009	02314-MW13	Aqueous	Diisopropyl ether (IPE)	8260B	240		ug/L	14
009	02314-MW13	Aqueous	Ethylbenzene	8260B	1700		ug/L	14
009	02314-MW13	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	110	J	ug/L	14
009	02314-MW13	Aqueous	Naphthalene	8260B	300		ug/L	14
009	02314-MW13	Aqueous	Toluene	8260B	21000		ug/L	14
009	02314-MW13	Aqueous	Xylenes (total)	8260B	8600		ug/L	14
010	02314-MW14	Aqueous	tert-Amyl alcohol (TAA)	8260B	100		ug/L	15
010	02314-MW14	Aqueous	Benzene	8260B	0.89	J	ug/L	15
010	02314-MW14	Aqueous	Ethylbenzene	8260B	0.99	J	ug/L	15
010	02314-MW14	Aqueous	Toluene	8260B	5.9		ug/L	15
010	02314-MW14	Aqueous	Xylenes (total)	8260B	6.9		ug/L	15
011	02314-MW15	Aqueous	tert-Amyl alcohol (TAA)	8260B	5100		ug/L	16
011	02314-MW15	Aqueous	Benzene	8260B	2800		ug/L	16

Executive Summary (Continued)

Lot Number: PJ02028

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
011	02314-MW15	Aqueous	Ethylbenzene	8260B	750		ug/L	16
011	02314-MW15	Aqueous	Naphthalene	8260B	120	J	ug/L	16
011	02314-MW15	Aqueous	Toluene	8260B	12000		ug/L	16
011	02314-MW15	Aqueous	Xylenes (total)	8260B	5900		ug/L	16
012	02314-DW1	Aqueous	Benzene	8260B	0.20	J	ug/L	17
012	02314-DW1	Aqueous	Toluene	8260B	0.85	J	ug/L	17
012	02314-DW1	Aqueous	Xylenes (total)	8260B	0.38	J	ug/L	17
015	02314-MW2R DUP	Aqueous	tert-Amyl alcohol (TAA)	8260B	7000		ug/L	20
015	02314-MW2R DUP	Aqueous	Benzene	8260B	6300		ug/L	20
015	02314-MW2R DUP	Aqueous	Diisopropyl ether (IPE)	8260B	100	J	ug/L	20
015	02314-MW2R DUP	Aqueous	Ethylbenzene	8260B	1700		ug/L	20
015	02314-MW2R DUP	Aqueous	Naphthalene	8260B	320		ug/L	20
015	02314-MW2R DUP	Aqueous	Toluene	8260B	18000		ug/L	20
015	02314-MW2R DUP	Aqueous	Xylenes (total)	8260B	8900		ug/L	20

(59 detections)

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-001

Description: 02314-MW2R Date Sampled: 09/29/2014 1350 Matrix: Aqueous

Date Received: 10/02/2014

5030B

Run Prep Method

Analytical Method Dilution Analysis Date Analyst Prep Date Batch 8260B 200 10/06/2014 1622 EH1 57580

Parameter		(Numl		Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	6900		4000	1300	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	5-8	8260B	ND		2000	40	ug/L	1
Benzene		71-4	13-2	8260B	6400		200	26	ug/L	1
tert-Butyl formate (TBF)		762-7	' 5-4	8260B	ND		1000	200	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND		200	29	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	87	J	200	80	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND		4000	200	ug/L	1
Ethanol		64-1	17-5	8260B	ND		20000	6600	ug/L	1
Ethylbenzene		100-4	1-4	8260B	1600		200	66	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND		200	40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0)4-4	8260B	ND		200	80	ug/L	1
Naphthalene		91-2	20-3	8260B	330		200	80	ug/L	1
tert-butyl alcohol (TBA)		75-6	35-0	8260B	ND		4000	1300	ug/L	1
Toluene		108-8	88-3	8260B	18000		200	66	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	8800		200	66	ug/L	1
Surrogate	Q	Run 1 A % Recovery	Acceptance Limits	;						
1,2-Dichloroethane-d4		90	70-130	<u> </u>						
Bromofluorobenzene		102	70-130							

Toluene-d8 70-130 94

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

J = Estimated result < PQL and >_MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-002 Description: 02314-MW5 Matrix: Aqueous

Date Sampled: 09/29/2014 1600 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 5030B 8260B 10/06/2014 1237 EH1 57580

95

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	13	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	16	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	4.8	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	110	1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	100	1.0	0.33	ug/L	1
Surrogate	Run 1 Acceptance Q % Recovery Limits	•					
1,2-Dichloroethane-d4	90 70-130						
Bromofluorobenzene	101 70-130						

70-130

PQL = Practical quantitation limit

Toluene-d8

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

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-003

Description: 02314-MW6 Matrix: Aqueous

Date Sampled: 09/29/2014 1315 Date Received: 10/02/2014

RunPrep MethodAnalytical MethodDilutionAnalysis DateAnalystPrep DateBatch15030B8260B110/06/2014 1259EH157580

Parameter	CAS Number	Analytical Method	Result	Q PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	60	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	1.5	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	2.6	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	8.8	1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	21	1.0	0.33	ug/L	1
Surrogate	Run 1 Acceptan Q % Recovery Limits						
1,2-Dichloroethane-d4	89 70-13	0					•
Bromofluorobenzene	100 70-13	0					

70-130

95

PQL = Practical quantitation limit

Toluene-d8

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

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-004

Date Sampled: 09/29/2014 1435 Date Received: 10/02/2014

Description: 02314-MW8

Matrix: Aqueous

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 1 5030B 8260B 200 10/06/2014 1707 EH1 57580

93

Parameter	CAS A Number	Analytical Method	Result	Q PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	6700	4000	1300	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	2000	40	ug/L	1
Benzene	71-43-2	8260B	3700	200	26	ug/L	1
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
Ethylbenzene	100-41-4	8260B	1300	200	66	ug/L	1
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
Naphthalene	91-20-3	8260B	180	J 200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1300	ug/L	1
Toluene	108-88-3	8260B	12000	200	66	ug/L	1
Xylenes (total)	1330-20-7	8260B	7200	200	66	ug/L	1
Surrogate	Run 1 Acceptance Q % Recovery Limits						
1,2-Dichloroethane-d4	89 70-130						
Bromofluorobenzene	101 70-130						

70-130

PQL = Practical quantitation limit

Toluene-d8

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

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-005 Description: 02314-MW9 Matrix: Aqueous

Date Sampled: 09/29/2014 1628 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 5030B 8260B 10/06/2014 1322 EH1 57580

Parameter	CAS	Analytical	Result	Q P	QL MDL	Units	Run
	Number	Method		<u> </u>			
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		_	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	1	00 33	ug/L	1
Ethylbenzene	100-41-4	8260B	0.54	J	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	3.0		1.0 0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	3.0		1.0 0.33	ug/L	1
Surrogate	Run 1 Accepta Q % Recovery Limi						
1,2-Dichloroethane-d4	91 70-1	130					
Bromofluorobenzene	99 70-2	130					
Toluene-d8	95 70-1	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

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-006 Description: 02314-MW10 Matrix: Aqueous

Date Sampled: 09/29/2014 1615 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Batch Prep Date 5030B 8260B 10/06/2014 1344 EH1 57580

Parameter		(Num	CAS ber	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND		10	0.20	ug/L	1
Benzene		71-4	13-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND		20	1.0	ug/L	1
Ethanol		64-1	17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	65-0	8260B	ND		20	6.7	ug/L	1
Toluene		108-8	38-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 / % Recovery	Acceptanc Limits	е						
1,2-Dichloroethane-d4		89	70-130							
Bromofluorobenzene		99	70-130							

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		94	70-130

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time

J = Estimated result < PQL and >_MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-007 Description: 02314-MW11 Matrix: Aqueous

Date Sampled: 09/29/2014 1210 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Batch Prep Date 5030B 8260B 10/06/2014 1407 EH1 57580

Parameter		C Numl		Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	5-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	5-8	8260B	ND		10	0.20	ug/L	1
Benzene		71-4	3-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-7	5-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107-0	6-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)		108-2	0-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND		20	1.0	ug/L	1
Ethanol		64-1	7-5	8260B	ND		100	33	ug/L	1
Ethylbenzene		100-4	1-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-2	0-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND		20	6.7	ug/L	1
Toluene		108-8	8-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q 9	Run 1 A % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		90	70-130				•			•
Bromofluorobenzene		99	70-130							

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		94	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

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-008 Description: 02314-MW12 Matrix: Aqueous

Date Sampled: 09/29/2014 1243 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 5030B 8260B 10/06/2014 1429 EH1 57580

Parameter	CAS Number	Analytical Method	Result (Q PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	51	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	0.38	J 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	5.0	1.0	0.33	ug/L	1
Surrogate	Run 1 Accepta Q % Recovery Limit						
1,2-Dichloroethane-d4	90 70-1	30					
Bromofluorobenzene	100 70-1	30					

Bromofluorobenzene 100 70-130 Toluene-d8 95 70-130

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

J = Estimated result < PQL and >_MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-009

Description: 02314-MW13 Matrix: Aqueous

Date Sampled: 09/29/2014 1520 Date Received: 10/02/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	10/06/2014 1729	EH1		57580

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	5400		4000	1300	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	40	ug/L	1
Benzene	71-43-2	8260B	6400		200	26	ug/L	1
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	240		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	2	0000	6600	ug/L	1
Ethylbenzene	100-41-4	8260B	1700		200	66	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	110	J	200	80	ug/L	1
Naphthalene	91-20-3	8260B	300		200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1300	ug/L	1
Toluene	108-88-3	8260B	21000		200	66	ug/L	1
Xylenes (total)	1330-20-7	8260B	8600		200	66	ug/L	1
Surrogate	Run 1 Accepta Q % Recovery Limit							
1,2-Dichloroethane-d4	92 70-1	30						
Bromofluorobenzene	102 70-1	30						
Toluene-d8	94 70-1	30						

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

 $\label{eq:J} J = Estimated \ result < PQL \ and \ \geq_MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-010

Matrix: Aqueous

Date Sampled: 09/29/2014 1500 Date Received: 10/02/2014

Description: 02314-MW14

RunPrep MethodAnalytical MethodDilutionAnalysis DateAnalystPrep DateBatch25030B8260B110/07/2014 1658EH157689

103

94

Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	100		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	0.89	J	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	0.99	J	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	5.9		1.0	0.33	ug/L	2
Xylenes (total)		1330-20-7	8260B	6.9		1.0	0.33	ug/L	2
Surrogate	Q	Run 2 Accepta % Recovery Limi							
1,2-Dichloroethane-d4		87 70-	130						

70-130

70-130

PQL = Practical quantitation limit

Bromofluorobenzene

Toluene-d8

B = Detected in the method blank

 $\label{eq:energy} \mbox{E = Quantitation of compound exceeded the calibration range}$

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

Client: Terry Environmental Services, Inc. Laboratory ID: PJ02028-011

Description: 02314-MW15 Matrix: Aqueous

Date Sampled: 09/29/2014 1333 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Batch Prep Date 1 5030B 8260B 200 10/06/2014 1814 EH1 57580

Parameter		C Numb		nalytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	5-4	8260B	5100		4000	1300	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	5-8	8260B	ND		2000	40	ug/L	1
Benzene		71-4	3-2	8260B	2800		200	26	ug/L	1
tert-Butyl formate (TBF)		762-7	5-4	8260B	ND		1000	200	ug/L	1
1,2-Dichloroethane		107-0	6-2	8260B	ND		200	29	ug/L	1
Diisopropyl ether (IPE)		108-20	0-3	8260B	ND		200	80	ug/L	1
3,3-Dimethyl-1-butanol		624-95	5-3	8260B	ND		4000	200	ug/L	1
Ethanol		64-1	7-5	8260B	ND		20000	6600	ug/L	1
Ethylbenzene		100-4 ⁻	1-4	8260B	750		200	66	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92	2-3	8260B	ND		200	40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND		200	80	ug/L	1
Naphthalene		91-2	0-3	8260B	120	J	200	80	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND		4000	1300	ug/L	1
Toluene		108-88	8-3	8260B	12000		200	66	ug/L	1
Xylenes (total)		1330-20	0-7	8260B	5900		200	66	ug/L	1
Surrogate	Q	Run 1 A % Recovery	cceptance Limits							
1,2-Dichloroethane-d4		91	70-130							

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		95	70-130

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

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

J = Estimated result < PQL and >_MDL

Client: Terry Environmental Services, Inc. Laboratory ID: PJ02028-012

Description: 02314-DW1 Matrix: Aqueous

Date Sampled: 09/29/2014 1649 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 5030B 8260B 10/06/2014 1452 EH1 57580

93

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	0.20	J 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	0.85	J 1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.38	J 1.0	0.33	ug/L	1
Surrogate	Run 1 Accepta Q % Recovery Limits						
1,2-Dichloroethane-d4	91 70-1:	30					
Bromofluorobenzene	100 70-13	30					

70-130

PQL = Practical quantitation limit

Toluene-d8

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

ND = Not detected at or above the MDL J = Estimated result < PQL and >_MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Client: Terry Environmental Services, Inc. Laboratory ID: PJ02028-013

Description: 02314-SW1 Matrix: Aqueous

Date Sampled: 09/26/2014 0940 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Prep Date Batch Analyst 5030B 8260B 10/06/2014 1514 EH1 57580

Parameter		(Num		Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	05-8	8260B	ND		10	0.20	ug/L	1
Benzene		71-4	43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND		20	1.0	ug/L	1
Ethanol		64-1	17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	65-0	8260B	ND		20	6.7	ug/L	1
Toluene		108-8	38-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 A % Recovery	Acceptance Limits	е						
1,2-Dichloroethane-d4		90	70-130				•			
Bromofluorobenzene		98	70-130							

Toluene-d8 93 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

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-014

Description: 02314-SW2 Matrix: Aqueous

Date Sampled: 09/26/2014 1000 Date Received: 10/02/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/06/2014 1537	EH1		57580

Parameter	CAS A Number	nalytical 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	Run 1 Acceptance Q % Recovery Limits						
1,2-Dichloroethane-d4	90 70-130						
Bromofluorobenzene	98 70-130						
Toluene-d8	92 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

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-015

Description: 02314-MW2R DUP

Date Sampled: 09/29/2014 1352 Date Received: 10/02/2014

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	10/06/2014 1644	EH1		57580

Parameter	CAS Number	Analytical Method	Result	Q PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	7000	4000	1300	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	2000	40	ug/L	1
Benzene	71-43-2	8260B	6300	200	26	ug/L	1
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	100	J 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
Ethylbenzene	100-41-4	8260B	1700	200	66	ug/L	1
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
Naphthalene	91-20-3	8260B	320	200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1300	ug/L	1
Toluene	108-88-3	8260B	18000	200	66	ug/L	1
Xylenes (total)	1330-20-7	8260B	8900	200	66	ug/L	1
Surrogate	Run 1 Accepta Q % Recovery Limi						
1,2-Dichloroethane-d4	90 70-1	130					
Bromofluorobenzene	102 70-1	130					
Toluene-d8	95 70-1	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

 $\label{eq:J} J = Estimated \ result < PQL \ and \ \geq_MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-016

Description: 02314-FB1 Matrix: Aqueous

Date Sampled: 09/26/2014 0800 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 1 5030B 8260B 1 10/06/2014 1129 EH1 57580

94

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	Run 1 Acceptan Q % Recovery Limits	ce					
1,2-Dichloroethane-d4	89 70-13	0					•
Bromofluorobenzene	100 70-130	0					

70-130

Toluene-d8

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

 $\label{eq:power_power} E = \mbox{Quantitation of compound exceeded the calibration range} \\ P = \mbox{The RPD between two GC columns exceeds } 40\%$

H = Out of holding time N = Recovery is out of criteria

ND = Not detected at or above the MDL J = Estimated result < PQL and \geq MDL P = The 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 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Client: Terry Environmental Services, Inc.

Laboratory ID: PJ02028-017

Description: 02314-FB2 Matrix: Aqueous

Date Sampled: 09/29/2014 1115 Date Received: 10/02/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/06/2014 1152	EH1		57580

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	Run 1 Accept Q % Recovery Lim						
1,2-Dichloroethane-d4	90 70-	130				•	
Bromofluorobenzene	100 70-	130					
Toluene-d8	94 70-	130					

PQL = Practical quantitation limit

B = Detected in the method blank

 $\label{eq:energy} \mbox{E = Quantitation of compound exceeded the calibration range}$

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

Client: Terry Environmental Services, Inc. Laboratory ID: PJ02028-018

Description: 02314-TB Matrix: Aqueous

Date Sampled: 09/29/2014 Date Received: 10/02/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 1 5030B 8260B 10/06/2014 1214 EH1 57580

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	Run 1 Acceptano Q % Recovery Limits	e e					
1,2-Dichloroethane-d4	90 70-130						
Bromofluorobenzene	100 70-130						

Toluene-d8 95 70-130

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 N = Recovery is out of criteria

J = Estimated result < PQL and >_MDL P = The RPD between two GC columns exceeds 40% Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

QC Summary

Sample ID: PQ57580-001

Batch: 57580

Matrix: Aqueous 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	10/06/2014 1044
tert-Amyl methyl ether (TAME)	ND		1 10	0.20	ug/L	10/06/2014 1044
Benzene	ND		1 1.0	0.13	ug/L	10/06/2014 1044
tert-Butyl formate (TBF)	ND		1 5.0	1.0	ug/L	10/06/2014 1044
1,2-Dichloroethane	ND		1 1.0	0.15	ug/L	10/06/2014 1044
Diisopropyl ether (IPE)	ND		1 1.0	0.40	ug/L	10/06/2014 1044
3,3-Dimethyl-1-butanol	ND		1 20	1.0	ug/L	10/06/2014 1044
Ethanol	ND		1 100	33	ug/L	10/06/2014 1044
Ethylbenzene	ND		1 1.0	0.33	ug/L	10/06/2014 1044
Ethyl-tert-butyl ether (ETBE)	ND		1 1.0	0.20	ug/L	10/06/2014 1044
Methyl tertiary butyl ether (MTBE)	ND		1 1.0	0.40	ug/L	10/06/2014 1044
Naphthalene	ND		1 1.0	0.40	ug/L	10/06/2014 1044
tert-butyl alcohol (TBA)	ND		1 20	6.7	ug/L	10/06/2014 1044
Toluene	ND		1 1.0	0.33	ug/L	10/06/2014 1044
Xylenes (total)	ND		1 1.0	0.33	ug/L	10/06/2014 1044
Surrogate	Q % Red	Acceptar Limit				
Bromofluorobenzene	100	70-13	30			
1,2-Dichloroethane-d4	89	70-13	30			
Toluene-d8	93	70-13	30			

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ57580-002

Batch: 57580

Matrix: Aqueous 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	1000		1	100	70-130	10/06/2014 0914
tert-Amyl methyl ether (TAME)	50	47		1	94	70-130	10/06/2014 0914
Benzene	50	51		1	102	70-130	10/06/2014 0914
tert-Butyl formate (TBF)	250	240		1	96	70-130	10/06/2014 0914
1,2-Dichloroethane	50	50		1	101	70-130	10/06/2014 0914
Diisopropyl ether (IPE)	50	52		1	103	70-130	10/06/2014 0914
3,3-Dimethyl-1-butanol	1000	940		1	94	70-130	10/06/2014 0914
Ethanol	5000	5100		1	101	60-140	10/06/2014 0914
Ethylbenzene	50	51		1	103	70-130	10/06/2014 0914
Ethyl-tert-butyl ether (ETBE)	50	50		1	100	70-130	10/06/2014 0914
Methyl tertiary butyl ether (MTBE)	50	49		1	99	70-130	10/06/2014 0914

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"

Sample ID: PQ57580-002

Batch: 57580

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	52	1	103	70-130	10/06/2014 0914
tert-butyl alcohol (TBA)	1000	1000	1	100	70-130	10/06/2014 0914
Toluene	50	52	1	104	70-130	10/06/2014 0914
Xylenes (total)	100	100	1	103	70-130	10/06/2014 0914
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	101	70-130				
1,2-Dichloroethane-d4	88	70-130				
Toluene-d8	96	70-130				

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ57580-003

Analytical Method:

Batch: 57580

8260B

Matrix: Aqueous Prep Method: 5030B

	Spike Amount	Result					% Rec	% RPD	
Parameter	(ug/L)	(ug/L)	Q	Dil	% Rec	% RPD	Limit	Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	970		1	97	2.6	70-130	20	10/06/2014 0937
tert-Amyl methyl ether (TAME)	50	46		1	92	1.8	70-130	20	10/06/2014 0937
Benzene	50	50		1	101	1.2	70-130	20	10/06/2014 0937
tert-Butyl formate (TBF)	250	240		1	98	1.8	70-130	20	10/06/2014 0937
1,2-Dichloroethane	50	50		1	101	0.17	70-130	20	10/06/2014 0937
Diisopropyl ether (IPE)	50	52		1	104	0.73	70-130	20	10/06/2014 0937
3,3-Dimethyl-1-butanol	1000	930		1	93	0.58	70-130	20	10/06/2014 0937
Ethanol	5000	5000		1	100	0.83	60-140	20	10/06/2014 0937
Ethylbenzene	50	50		1	101	1.9	70-130	20	10/06/2014 0937
Ethyl-tert-butyl ether (ETBE)	50	51		1	101	0.99	70-130	20	10/06/2014 0937
Methyl tertiary butyl ether (MTBE)	50	50		1	99	0.33	70-130	20	10/06/2014 0937
Naphthalene	50	54		1	108	4.3	70-130	20	10/06/2014 0937
tert-butyl alcohol (TBA)	1000	960		1	96	4.3	70-130	20	10/06/2014 0937
Toluene	50	51		1	102	2.0	70-130	20	10/06/2014 0937
Xylenes (total)	100	100		1	102	0.51	70-130	20	10/06/2014 0937
Surrogate	Q % Rec		ptance imit						
Bromofluorobenzene	101	70	0-130	•					
1,2-Dichloroethane-d4	88	70	0-130						
Toluene-d8	94	70	0-130						

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"

Sample ID: PJ02028-011MS

Batch: 57580

Analytical Method:

8260B

Matrix: Aqueous Prep Method: 5030B

	Sample	Spike	Desult				% Rec	
Parameter	Amount (ug/L)	Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	Limit	Analysis Date
tert-Amyl alcohol (TAA)	5100	200000	200000		200	98	70-130	10/06/2014 1837
tert-Amyl methyl ether (TAME)	ND	10000	9800		200	98	70-130	10/06/2014 1837
Benzene	2800	10000	14000		200	107	72-127	10/06/2014 1837
tert-Butyl formate (TBF)	ND	50000	48000		200	95	70-130	10/06/2014 1837
1,2-Dichloroethane	ND	10000	11000		200	106	59-143	10/06/2014 1837
Diisopropyl ether (IPE)	ND	10000	11000		200	107	70-130	10/06/2014 1837
3,3-Dimethyl-1-butanol	ND	200000	190000		200	93	70-130	10/06/2014 1837
Ethanol	ND	1000000	1000000		200	102	70-130	10/06/2014 1837
Ethylbenzene	750	10000	11000		200	106	79-132	10/06/2014 1837
Ethyl-tert-butyl ether (ETBE)	ND	10000	11000		200	105	70-130	10/06/2014 1837
Methyl tertiary butyl ether (MTBE)	ND	10000	10000		200	104	60-140	10/06/2014 1837
Naphthalene	120	10000	11000		200	106	62-136	10/06/2014 1837
tert-butyl alcohol (TBA)	ND	200000	200000		200	101	70-130	10/06/2014 1837
Toluene	12000	10000	22000		200	107	75-125	10/06/2014 1837
Xylenes (total)	5900	20000	27000		200	107	70-130	10/06/2014 1837
Surrogate	Q % Re	Accep Lir	tance nit					
1,2-Dichloroethane-d4	89	70	-130		·		·	
Bromofluorobenzene	100	70	-130					
Toluene-d8	95	70	-130					

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PJ02028-011MD

Batch: 57580

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPE) Analysis Date
tert-Amyl alcohol (TAA)	5100	200000	200000		200	97	1.7	70-130	20	10/06/2014 1859
tert-Amyl methyl ether (TAME)	ND	10000	9600		200	96	2.0	70-130	20	10/06/2014 1859
Benzene	2800	10000	13000		200	103	2.7	72-127	20	10/06/2014 1859
tert-Butyl formate (TBF)	ND	50000	47000		200	94	1.7	70-130	20	10/06/2014 1859
1,2-Dichloroethane	ND	10000	10000		200	105	0.83	59-143	20	10/06/2014 1859
Diisopropyl ether (IPE)	ND	10000	11000		200	107	0.46	70-130	20	10/06/2014 1859
3,3-Dimethyl-1-butanol	ND	200000	180000		200	92	0.96	70-130	20	10/06/2014 1859
Ethanol	ND	1000000	1000000		200	100	1.8	70-130	20	10/06/2014 1859
Ethylbenzene	750	10000	11000		200	101	4.3	79-132	20	10/06/2014 1859
Ethyl-tert-butyl ether (ETBE)	ND	10000	10000		200	103	2.0	70-130	20	10/06/2014 1859
Methyl tertiary butyl ether (MTBE)	ND	10000	10000		200	101	3.3	60-140	20	10/06/2014 1859

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"

Sample ID: PJ02028-011MD

Batch: 57580

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPI) Analysis Date
Naphthalene	120	10000	11000		200	106	0.17	62-136	20	10/06/2014 1859
tert-butyl alcohol (TBA)	ND	200000	200000		200	99	2.3	70-130	20	10/06/2014 1859
Toluene	12000	10000	22000		200	101	2.3	75-125	20	10/06/2014 1859
Xylenes (total)	5900	20000	26000		200	102	3.1	70-130	20	10/06/2014 1859
Surrogate	Q % Red	Accep Lir	otance mit							
1,2-Dichloroethane-d4	90	70	-130							
Bromofluorobenzene	101	70	-130							
Toluene-d8	95	70	-130							

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ57689-001

Batch: 57689

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	(Q Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	10/07/2014 1206
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/07/2014 1206
Benzene	ND		1	1.0	0.13	ug/L	10/07/2014 1206
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	10/07/2014 1206
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	10/07/2014 1206
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	10/07/2014 1206
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	10/07/2014 1206
Ethanol	ND		1	100	33	ug/L	10/07/2014 1206
Ethylbenzene	ND		1	1.0	0.33	ug/L	10/07/2014 1206
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	10/07/2014 1206
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	10/07/2014 1206
Naphthalene	ND		1	1.0	0.40	ug/L	10/07/2014 1206
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	10/07/2014 1206
Toluene	ND		1	1.0	0.33	ug/L	10/07/2014 1206
Xylenes (total)	ND		1	1.0	0.33	ug/L	10/07/2014 1206
Surrogate	Q %	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		87	70-130				
Toluene-d8		90	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"

Sample ID: PQ57689-002

Batch: 57689

Matrix: Aqueous 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	970	1	97	70-130	10/07/2014 1036
tert-Amyl methyl ether (TAME)	50	49	1	97	70-130	10/07/2014 1036
Benzene	50	50	1	100	70-130	10/07/2014 1036
tert-Butyl formate (TBF)	250	240	1	95	70-130	10/07/2014 1036
1,2-Dichloroethane	50	50	1	100	70-130	10/07/2014 1036
Diisopropyl ether (IPE)	50	52	1	104	70-130	10/07/2014 1036
3,3-Dimethyl-1-butanol	1000	930	1	93	70-130	10/07/2014 1036
Ethanol	5000	4700	1	94	60-140	10/07/2014 1036
Ethylbenzene	50	52	1	104	70-130	10/07/2014 1036
Ethyl-tert-butyl ether (ETBE)	50	50	1	100	70-130	10/07/2014 1036
Methyl tertiary butyl ether (MTBE)	50	50	1	100	70-130	10/07/2014 1036
Naphthalene	50	58	1	115	70-130	10/07/2014 1036
tert-butyl alcohol (TBA)	1000	990	1	99	70-130	10/07/2014 1036
Toluene	50	50	1	100	70-130	10/07/2014 1036
Xylenes (total)	100	110	1	106	70-130	10/07/2014 1036
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	104	70-130				
1,2-Dichloroethane-d4	87	70-130				
Toluene-d8	90	70-130				

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ57689-003

Matrix: Aqueous

Prep Method: 5030B Batch: 57689 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	950		1	95	1.3	70-130	20	10/07/2014 1058
tert-Amyl methyl ether (TAME)	50	47		1	95	2.5	70-130	20	10/07/2014 1058
Benzene	50	50		1	100	0.70	70-130	20	10/07/2014 1058
tert-Butyl formate (TBF)	250	230		1	92	3.2	70-130	20	10/07/2014 1058
1,2-Dichloroethane	50	48		1	97	2.9	70-130	20	10/07/2014 1058
Diisopropyl ether (IPE)	50	51		1	103	1.4	70-130	20	10/07/2014 1058
3,3-Dimethyl-1-butanol	1000	910		1	91	2.1	70-130	20	10/07/2014 1058
Ethanol	5000	4600		1	92	2.2	60-140	20	10/07/2014 1058
Ethylbenzene	50	51		1	103	1.4	70-130	20	10/07/2014 1058
Ethyl-tert-butyl ether (ETBE)	50	49		1	98	1.9	70-130	20	10/07/2014 1058
Methyl tertiary butyl ether (MTBE)	50	50		1	99	0.55	70-130	20	10/07/2014 1058

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"

Sample ID: PQ57689-003

Batch: 57689

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	56	1	112	3.0	70-130	20	10/07/2014 1058
tert-butyl alcohol (TBA)	1000	960	1	96	3.5	70-130	20	10/07/2014 1058
Toluene	50	50	1	101	1.1	70-130	20	10/07/2014 1058
Xylenes (total)	100	100	1	104	1.8	70-130	20	10/07/2014 1058
Surrogate	Q % Rec	Acceptance Limit						
Bromofluorobenzene	103	70-130						
1,2-Dichloroethane-d4	86	70-130						
Toluene-d8	92	70-130						

PQL = Practical quantitation limit

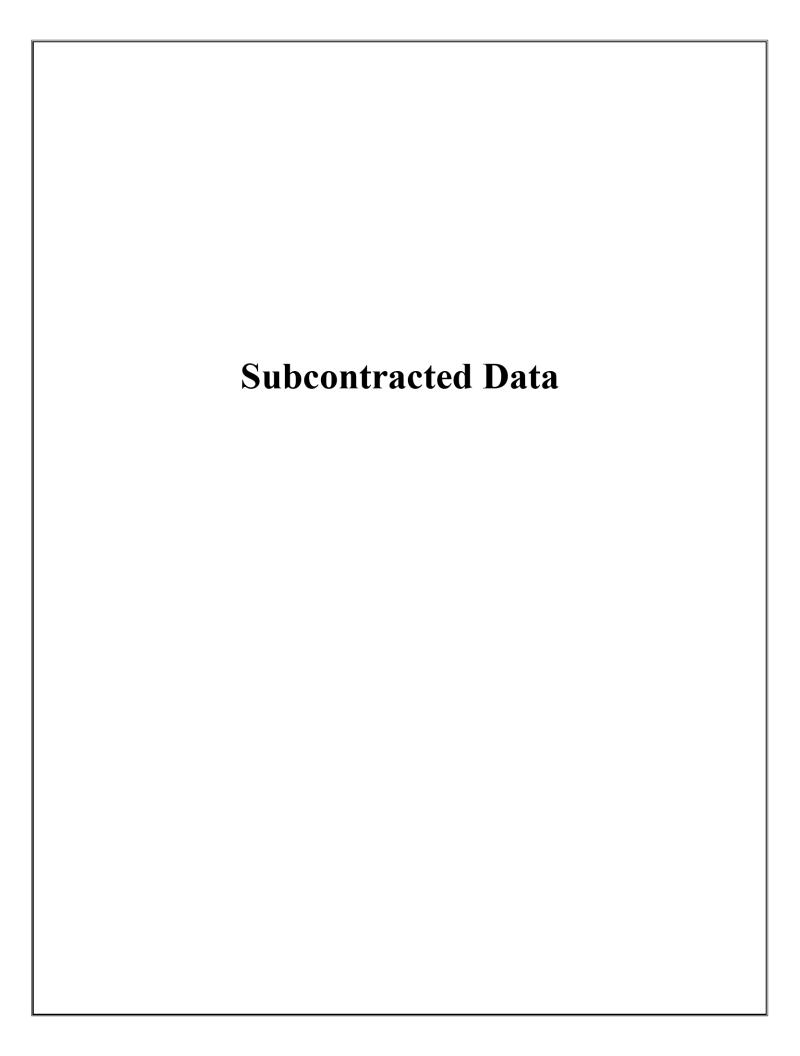
P = The RPD between two GC columns exceeds 40%

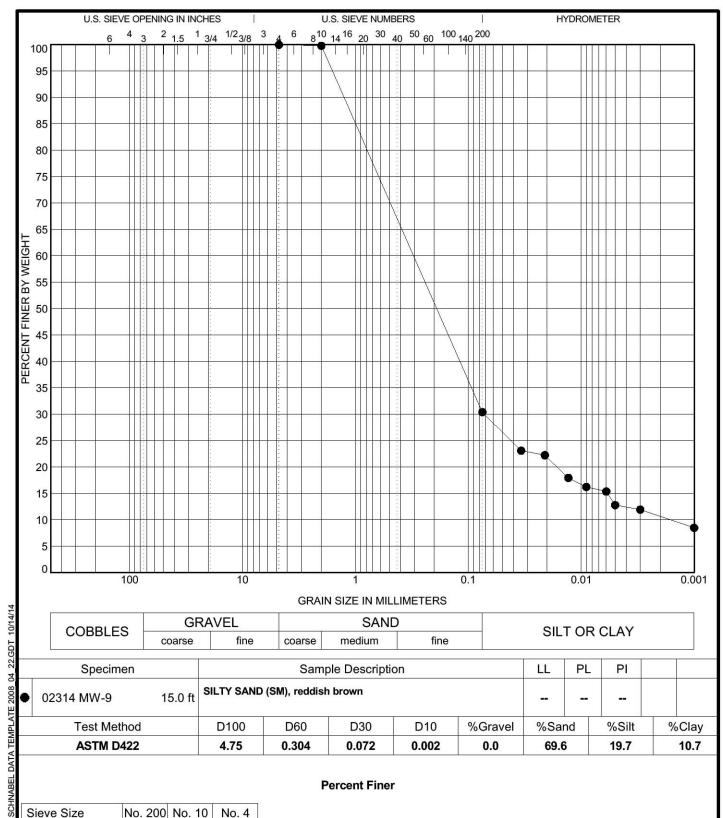
N = Recovery is out of criteria + = RPD is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and >_MDL

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





Sieve Size	No. 200	No. 10	No. 4
% Finer	30.4	99.8	100.0

SIEVE 1/SHEET HYDROMETERS-2014.GPJ

Tested By	Tested Date	Reviewed By	Calc By
DH	10/8/14	SRH	MDE



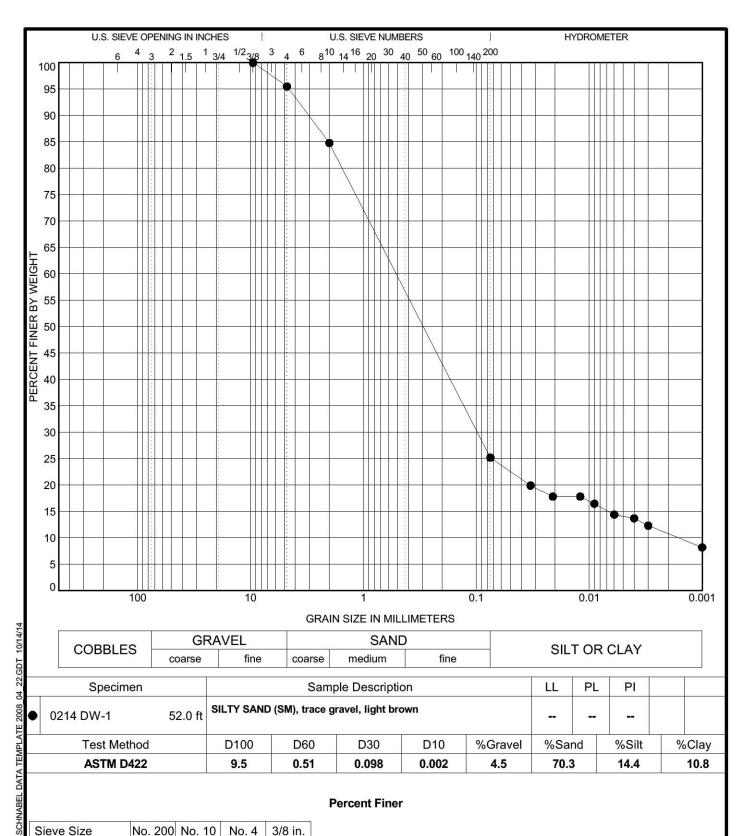
GRADATION CURVE

Project: Shealy Laboratory

PJ02028

Cayce, SC

Contract: 08190058.00.241



Percent Finer

Sieve Size	No. 200	No. 10	No. 4	3/8 in.
% Finer	25.2	84.8	95.5	100.0

SIEVE 1/SHEET HYDROMETERS-2014.GPJ

Tested By	Tested Date	Reviewed By	Calc By
DH	10/8/14	SRH	MDE



GRADATION CURVE

Project: **Shealy Laboratory**

PJ02028

Cayce, SC

Contract: 08190058.00.242

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SC 29172	Project Na
	Project No
(803) 791-9700	(Confisions)
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Fax (80	02314
3) 79	02314
(803) 791-9111	02314
www	02314

Note:	All SI	ample	s ar	e re	etain	ned	for	tour	Wee	eks fr	om re	cet	pt	
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Chain of Custody Record

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 41002

SHEALY ENVIRONMENTAL SERVICES, INC.

Terry Environmental	Survius	Report to Co	50100	W	141	cn						Telephone No. (843)	873-	8200		Quote No.
P.U. Box 25		Sampler's S										Analysis (Attacl	h list if more	space is need	ied)	Pago 1 of Z
Summerville State Project Name Windsor Mart	Zip Code 29484	Printed Name		<u>موہ</u>	シ	Ker	<u>ヤ</u>	_	_	-		t, 1678E				PJ02028
Project No. 2171.9 A	P.O. No.	9	96	44.	atrix	T			Dontain eventive			BTEX NAPH.				7
Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	O-Composite Co-Composite	Aqueous Spirit	Atlanta	Cisprae	невол	NACO	5 5	5005 V3		1878 1870 1870 1870 1870 1870 1870 1870				Remarks / Cooler I.D.
02314-MWZR	9/29/14	1350	3	×	Ц			1	×			3				
02314 - MW5	9/29/14	1600	1	1	Ц	L		1		L		1				
02314 - MWG	1	1315	1	1	Ц			1		L		4				
02314 - MW8		1435	1	1	Н	1	Ц	4	1	\perp		\perp				-
02314 - MW9		1628	1	Ш	Ц		Ш	4	Ш	_						
02314 - MW10	\Box	1615	1	Ш	Н		Ш	4	Ш	1		+	-			
02314 - MWII		1710	1		П							$\perp \perp$				
02314 - MW12		1243	1	Ш	Ц											
02314 - MW13		1500	L	Ш	Ш					\perp						
02314-MW14	V	1500	y	4				1	V			Ψ				
Turn Around Time Required (Prior lab approval require OStandard Rush (Specify)	ed for expedited TAU.)	Sample Disposi		E>∩ion	nezí hu				77.7	<i>ldentit</i> ⊒ Flami			□ Peison	☐ Unknown	OC Requirem	senta (Specify)
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Note: All samples are retain unless other arra		eks from rece							ONLY on loe	(Circle	, 6	S No los I	Pack /	Receipt Temp.	v 6.1	

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Chain of Custody Record

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 41001

SHEALY ENVIRONMENTAL SERVICES, INC.

Client Test English Anna	احا	Report to	Contai	a	me	ш	1	_			1			o. / E-m		<i>20</i> 0				Quote No.
Terry Environment Address P.O. Box 75	Zip Code	Sempler's	Signa)	ture	-		,,				Ĺ	Ansilya	sis (Att			space is	oceadox	0	_	Page Z of Z
Summerville Sc. Project Namp WindSOT Mart	29484	Printegly No.	ime	Je	חח	ing	95	K	ie r	<u> </u>	44.00	LEDCA, OQU, EH	22	SiS	0					PJ02028
Project No. 7171.9A	P.O. No.			-	latrix	Ī		No of	Contai	nors	2	4:00	in St	how						
Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Gridian Ordenparate	Aquente	Again.	Utpses.	ARBOA	144473	3	Sess AC	No.	A-E DCA ,	Grain Size	₹.						Remarke / Cooler I.D.
02314-MW15	9/20/14	1333	G	×					×			3					4	(8)	1	
12314- DWI	9/29/14	1649	1	1	Ш	_	Ц		Ш	-		1		Ш	_	4	_		-	
72314- SW1	9/26/14	0940	Ш	1	Ш	L			П			1			_	_	4	\perp		
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02314-MWZR DUP	9/29/14	1352			Ш							L					_		\perp	
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02314- 7B	9/29/14			1	Ш				1			Z				_	4		1	
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2314 - DW1	9/24/14	1300		1	A	X							1				1			
um Around Time Required (Prior lab approval require Standard	ed for expedited TAT.	Sample Disp	osal Sent	Crise	usal hv					Adentifi T Flamm			kin Imit	ant ()	Poison	□ Unkn	ovan	GC Requ	uirente	ents (Specify)
Hallofulaned by		Date 10 · 1		Tim			_		ed by									Date		Time
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Note: All samples are retain unless other arra		eks from re							ONLY on ice	(Circle	G) 'n	io k	е Раск	R	scelpt To	_		·c	

Shealy Environmental Services, Inc. Document Number: F-AD-016 Revision Number: 15 Page 1 of 1 Replaces Date: 03/07/14 Effective Date: 07/15/14

Sample Receipt Checklist (SRC)

Means of receipt: SESI Client UPS FedEx Airborne Exp Other Yes No NA 2 2. If custody seals were present, were they intact and unbroken?	
Yes No NA 2. If custody seals present on the cooler? Yes No NA 2. If custody seals were present, were they intact and unbroken?	
Yes No NA 2. If custody seals were present, were they intact and unbroken?	
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:	
/09\/\-3 °C // °C // °C // °C	
Method: Temperature Blank Against Bottles IR Gun ID: #3 IR Gun Correction Factor: 6.3	°C
Method of coolant: Wet Ice Blue Ice Dry Ice None	
3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified?	
DM notified by CDC whome note (sixele and) others	
Yes No No NA M Hothled by SRC, phone, note (circle one), other: (For coolers received via commercial courier, PMs are to be notified	
immediately.)	
Yes No NA 4. Is the commercial courier's packing slip attached to this form?	
Yes No 5. Were proper custody procedures (relinquished/received) followed?	
Yes No NA Sa Were samples relinquished by client to commercial courier?	
Yes ☑ No ☐ 6. Were sample IDs listed on the COC?	
Yes ☑ No ☐ 7. Were sample IDs listed on all sample containers?	
Yes ☑ No ☐ 8. Was collection date & time listed on the COC?	
Yes No 9. Was collection date & time listed on all sample containers?	
Yes No 10. Did all container label information (ID, date, time) agree with the COC?	
Yes No 11. Were tests to be performed listed on the COC?	
Yes No 12. Did all samples arrive in the proper containers for each test?	
Yes No 13. Did all containers arrive in good condition (unbroken, lids on, etc.)?	
Yes No 14. Was adequate sample volume available?	
Yes No No No No No No No No No No No No No	ŧΓ
Yes No 16. Were any samples containers missing?	
Yes No 7. Were there any excess samples not listed on COC?	
Yes 🔲 No 🖊 NA 🗍 18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA viz	ıls?
Yes No No NA NA 19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?	
Yes No No NA 20. Were all cyanide and/or sulfide samples received at a pH >12?	
Yes No No Na Z 21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?	
Yes No NA 22. Were collection temperatures documented on the COC for NC samples?	
Yes No No NA A 23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designation etc) correctly transcribed from the COC into the comment section in LIMS?	ns,
Yes No 24. Was the quote number used taken from the container label?	
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) were received incorrectly preserved and were adju	sted
accordingly in sample receiving with (H ₂ SO ₄ ,HNO ₃ ,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:	-6-
Sample(s) were not received at a pH of <2 and were adjusted accordingly using SR#	
Sample labels applied by: Warm Verified by: When Date: 1012114	
Comments:	

Report of Analysis

Terry Environmental Services, Inc.

1753 North Main Street Summerville, SC 29483 Attention: Tim Mettlen

Project Name: Windsor Mart

Project Number: 2217.9A

Lot Number: PK06067

Date Completed: 11/20/2014

Kelly M. Maberry
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.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: PK06067

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.

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Level 1 Report v2 1

Sample Summary Terry Environmental Services, Inc.

Lot Number: PK06067

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314-MW17	Aqueous	11/06/2014 1645	11/06/2014
002	02314-MW18	Aqueous	11/06/2014 1656	11/06/2014
003	02314-MW19	Aqueous	11/06/2014 1711	11/06/2014
004	02314-MW20	Aqueous	11/06/2014 1730	11/06/2014
005	02314-MW19 Dup	Aqueous	11/06/2014 1713	11/06/2014
006	02314-FB1	Aqueous	11/06/2014 1640	11/06/2014
007	02314-TB	Aqueous	11/06/2014	11/06/2014

(7 samples)

Executive Summary Terry Environmental Services, Inc.

Lot Number: PK06067

Sampl	le Sample ID	Matrix	Parameter	Method	Result	Q Units	Page
003	02314-MW19	Aqueous	Benzene	8260B	4100	ug/L	7
003	02314-MW19	Aqueous	Ethanol	8260B	78000	ug/L	7
003	02314-MW19	Aqueous	Ethylbenzene	8260B	1500	ug/L	7
003	02314-MW19	Aqueous	Naphthalene	8260B	320	ug/L	7
003	02314-MW19	Aqueous	Toluene	8260B	15000	ug/L	7
003	02314-MW19	Aqueous	Xylenes (total)	8260B	8300	ug/L	7
004	02314-MW20	Aqueous	tert-Amyl alcohol (TAA)	8260B	1500	ug/L	8
004	02314-MW20	Aqueous	Benzene	8260B	1300	ug/L	8
004	02314-MW20	Aqueous	Diisopropyl ether (IPE)	8260B	68	ug/L	8
004	02314-MW20	Aqueous	Ethylbenzene	8260B	320	ug/L	8
004	02314-MW20	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	41	ug/L	8
004	02314-MW20	Aqueous	Naphthalene	8260B	76	ug/L	8
004	02314-MW20	Aqueous	Toluene	8260B	3300	ug/L	8
004	02314-MW20	Aqueous	Xylenes (total)	8260B	2000	ug/L	8
005	02314-MW19 Dup	Aqueous	Benzene	82608	4100	ug/L	9
005	02314-MW19 Dup	Aqueous	Ethanol	8260B	87000	ug/L	9
005	02314-MW19 Dup	Aqueous	Ethylbenzene	8260B	1700	ug/L	9
005	02314-MW19 Dup	Aqueous	Naphthalene	8260B	340	ug/l	9
005	02314-MW19 Dup	Aqueous	Toluene	8260B	15000	ug/L	9
005	02314-MW19 Dup	Aqueous	Xylenes (total)	8260B	9000	ug/L	9

(20 detections)

Description: 02314-MW17

Date Sampled:11/06/2014 1645

Date Received:11/06/2014

Laboratory ID: PK06067-001

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution		Prep Date	Batch 60852	

Parameter	CAS Number	Analytical Method	Result	Q PQ	L MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	2	0 6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1	0 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.		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-Dimethy!-1-butanol	624-95-3	8260B	ND	2	0 1.0	ug/L	1
Ethanol	64-17-5	8260B	ND	10	0 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
ert-butyl alcohol (TBA)	75-65-0	8260B	ND	2	0 6.7	ug/L	1
oluene	108-88-3	8260B	ND	1.	0 0.33	ug/L	1
(ylenes (total)	1330-20-7	8260B	ND	1,		ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	
1,2-Dichloroethane-d4		94	70-130	
Bromofluorobenzene		89	70-130	
Toluene-d8		97	70-130	

H = Out of holding time

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

Description: 02314-MW18

Date Sampled:11/06/2014 1656

Date Received:11/06/2014

Laboratory ID: PK06067-002

Matrix: Aqueous

Volatile Organic Compounds by GC/MS	Volatile	Organic	Compounds	bν	GC/MS
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Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date 14/2014 0155	Analyst Prep PMM2	Date Batch 6085			
Parameter		CA: Numbe		D 14	Q PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	4 820	30B ND	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8 820	30B ND	10	0.20	ug/L	1
Benzene		71-43-	2 826	OB ND	1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-75-4	4 826	OB ND	5.0	1.0	ug/L	1
1,2-Dichloroethane		107-06-2	2 826	30B ND	1.0	0.15	ug/L	1
Diisopropyl ether (IPE)		108-20-3	3 826	OB ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	3 826	60B ND	20	1.0	ug/L	1
Ethanol		64-17-	5 826	SOB ND	100	33	ug/L	1
Ethylbenzene		100-41-4	4 826	OB ND	1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	3 820	OB ND	1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	4 826	OB ND	1.0	0.40	ug/L	1
Naphthalene		91-20-3	3 826	OB ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	0 826	OB ND	20	6.7	ug/L	1
Toluene		108-88-3	3 826	OB ND	1.0	0.33	ug/L	1
Xylenes (total)		1330-20-7	7 826	60B ND	1.0	0.33	ug/L	1
Surrogate		Run 1 Acc Recovery L	eptance _imits					
1,2-Dichloroethane-d4		91	70-130					
Bromofluorobenzene		91	70-130					
foluene-d8		98	70-130					

8 = 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

Description: 02314-MW19

Date Sampled:11/06/2014 1711

Date Received: 11/06/2014

Laboratory ID: PK06067-003

Matrix: Aqueous

Volatile	Organic	Comp	oounds	by	GC/MS	

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis 1/14/2014	•	•	te Batch 60852			
Parameter		C Numl		Analytical Method	Result C	Q PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	5-4	8260B	ND	4000	1300	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	5-8	8260B	ND	2000	40	ug/L	1
Benzene		71-4	3-2	8260B	4100	200	26	ug/L	1
tert-Butyl formate (TBF)		762-7	5-4	8260B	ND	1000	200	ug/L	1
1,2-Dichloroethane		107-0	6-2	8260B	ND	200	29	ug/L	1
Diisopropyl ether (IPE)		108-2	0-3	8260B	ND	200	80	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND	4000	200	ug/L	1
Ethanol		64-1	7-5	8260B	78000	20000	6600	ug/L	1
Ethylbenzene		100-4	1-4	8260B	1500	200	66	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND	200	40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ИD	200	80	ug/L	1
Naphthalene		91-2	0-3	8260B	320	200	80	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND	4000	1300	ug/L	1
Toluene		108-8	8-3	8260B	15000	200	66	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	8300	200	66	ug/L	1
Surrogate	Q %	Run 1 A Recovery	cceptano Limits	e					
1,2-Dichloroethane-d4		94	70-130					·	
Bromofluorobenzene		94	70-130						
l'oluene-d8		103	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

Description: 02314-MW20 Date Sampled:11/06/2014 1730 Date Received: 11/06/2014

Laboratory ID: PK06067-004

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	11/14/2014 0425	PMM2		60852

Parameter	CAS Number	Analytical Method	Result	Q PQL	MDŁ	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	1500	400	130	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	200	4.0	ug/L	1
Benzene	71-43-2	8260B	1300	20	2.6	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	100	20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	20	2.9	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	68	20	8.0	ug/L	1
3,3-Dimethył-1-butanol	624-95-3	8260B	ND	400	20	ug/L	1
Ethanol	64-17-5	8260B	ND	2000	660	ug/L	1
Ethylbenzene	100-41-4	8260B	320	20	6.6	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	20	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	41	20	8.0	ug/L	1
Naphthalene	91-20-3	8260B	76	20	8.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	400	130	ug/L	1
Toluene	108-88-3	8260B	3300	20	6.6	ug/L	1
Xylenes (total)	1330-20-7	8260B	2000	20	6.6	ug/L	1

Surrogate	Q	Run 1 A % Recovery	Acceptance Limits		
1,2-Dichloroethane-d4		92	70-130		
Bromofluorobenzene		99	70-130		
Toluene-d8		99	70-130		

ND = Not detected at or above the MDL

Description: 02314-MW19 Dup Date Sampled:11/06/2014 1713 Date Received: 11/06/2014

Ethyl-tert-butyl ether (ETBE)

tert-butyl alcohol (TBA)

Naphthalene

Xylenes (total)

Toluene

Methyl tertiary butyl ether (MTBE)

Run Prep Method

Laboratory ID: PK06067-005

Batch

200

200

200

4000

200

200

40

80

80

66

66

1300

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

1

1

1

1

1

1

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Analytical Method Dilution Analysis Date Analyst Prep Date

637-92-3

1634-04-4

91-20-3

75-65-0

108-88-3

1330-20-7

1 50308	8260B 200 11/14/2	014 1850 EH	60896	1				
Parameter	CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	4000	1300	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	NO	2000	40	ug/L	1	
Benzene	71-43-2	8260B	4100	200	26	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND	1000	200	ug/L	1	
1,2-Dichtoroethane	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	
Ethanoi	64-17-5	8260B	87000	20000	6600	ug/L	1	
Ethylbenzene	100-41-4	8260B	1700	200	66	ug/L	1	

8260B

8260B

8260B

8260B

8260B

8260B

ND

ND

340

ND

15000

9000

Run 1 Acceptance Surrogate % Recovery Limits 1,2-Dichloroethane-d4 97 70-130 Bromofluorobenzene 93 70-130 Toluene-d8 108 70-130

H = Out of holding time

Description: 02314-FB1 Date Sampled:11/06/2014 1640 Date Received: 11/06/2014

Ethanol

Ethylbenzene

Ethyl-tert-butyl ether (ETBE)

Laboratory ID: PK06067-006

100

1.0

1.0

33

0.33

0.20

ug/L

ug/L

ug/L

1

1

1

Matrix: Aqueous

Volatile Organic Compounds by	y GC/MS	
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Run Prep Method 1 5030B	Analytical Method 8260B	•	sis Date Analy 2014 1155 EH	•	Batch 60896			
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

8260B

8260B

8260B

ND

ND

ND

Surrogate	Run 1 Accepta						
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.33	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.33	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	6.7	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1

64-17-5

100-41-4

637-92-3

Q Q	76 Recovery	Limits
1,2-Dichloroethane-d4	96	70-130
Bromofluorobenzene	89	70-130
Toluene-d8	105	70-130

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

 $J = \mathsf{Estimated} \; \mathsf{result} \leq \mathsf{PQL} \; \mathsf{and} \geq \mathsf{MDL}$

Description: 02314-TB Date Sampled: 11/06/2014 Date Received: 11/06/2014 Laboratory ID: PK06067-007

Matrix: Aqueous

Volatile Organic	Compounds b	y GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B		11/14/2014 1216		•	60896

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
ert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	6.7	ug/L	1
l'oluene	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

Q	Run 1 % Recovery	Limits	
	99	70-130	
	87	70-130	
	106	70-130	
	Q	Q % Recovery 99 87	Q % Recovery Limits 99 70-130 87 70-130

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

QC Summary

Sample ID: PQ60852-001 Batch: 60852

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result		Q Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	11/13/2014 2326
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	11/13/2014 2326
Benzene	ND		1	1.0	0.13	ug/L	11/13/2014 2326
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	11/13/2014 2326
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	11/13/2014 2326
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/13/2014 2326
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	11/13/2014 2326
Ethanol	ND		1	100	33	ug/L	11/13/2014 2326
Ethylbenzene	ND		1	1.0	0.33	ug/L	11/13/2014 2326
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	11/13/2014 2326
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	11/13/2014 2326
Naphthalene	ND		1	1.0	0.40	ug/L	11/13/2014 2326
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	11/13/2014 2326
Toluene	ND		1	1.0	0.33	ug/L	11/13/2014 2326
Xylenes (total)	ND		1	1.0	0.33	ug/L	11/13/2014 2326
Surrogate	Q %	Rec	Acceptance Limit				
Bromofluorobenzene	9	4	70-130				
1,2-Dichloroethane-d4	9	14	70-130				
Toluene-d8	10	02	70-130				

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ60852-002

Batch: 60852

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

	Spike Amount	Result				% Rec	
Parameter	(ug/L)	(ug/L)	Q	Dil	% Rec	Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	109	70-130	11/13/2014 2225
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	11/13/2014 2225
Benzene	50	47		1	93	70-130	11/13/2014 2225
tert-Butyl formate (TBF)	250	210		1	84	70-130	11/13/2014 2225
1,2-Dichloroethane	50	50		1	99	70-130	11/13/2014 2225
Diisopropyl ether (IPE)	50	48		1	95	70-130	11/13/2014 2225
3,3-Dimethyl-1-butanol	1000	1100		1	112	70-130	11/13/2014 2225
Ethanol	5000	5700		1	113	60-140	11/13/2014 2225
Ethylbenzene	50	54		1	107	70-130	11/13/2014 2225
Ethyl-tert-butyl ether (ETBE)	50	46		1	92	70-130	11/13/2014 2225
Methyl tertiary butyl ether (MTBE)	50	45		1	91	70-130	11/13/2014 2225

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"

Sample ID: PQ60852-002

Batch: 60852

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	52	1	104	70-130	11/13/2014 2225
tert-butyl alcohol (TBA)	1000	1100	1	105	70-130	11/13/2014 2225
Toluene	50	49	1	99	70-130	11/13/2014 2225
Xylenes (total)	100	100	1	105	70-130	11/13/2014 2225
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	97	70-130				
1,2-Dichloroethane-d4	87	70-130				
Toluene-d8	91	70-130				

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ60896-001

Batch: 60896 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND	1	20	6.7	ug/L	11/14/2014 1116
tert-Amyl methyl ether (TAME)	ND	1	10	0.20	ug/L	11/14/2014 1116
Benzene	ND	1	1.0	0.13	ug/L	11/14/2014 1116
tert-Butyl formate (TBF)	ND	1	5.0	1.0	ug/L	11/14/2014 1116
1,2-Dichloroethane	ND	1	1.0	0.15	ug/L	11/14/2014 1116
Diisopropyl ether (IPE)	ND	1	1.0	0.40	ug/L	11/14/2014 1116
3,3-Dimethyl-1-butanol	ND	1	20	1.0	ug/L.	11/14/2014 1116
Ethanol	ND	1	100	33	ug/L	11/14/2014 1116
Ethylbenzene	ND	1	1.0	0.33	ug/L	11/14/2014 1116
Ethyl-tert-butyl ether (ETBE)	ND	1	1.0	0.20	ug/L	11/14/2014 1116
Methyl tertiary butyl ether (MTBE)	ND	1	1.0	0.40	ug/L	11/14/2014 1116
Naphthalene	ND	1	1.0	0.40	ug/L	11/14/2014 1116
tert-butyl alcohol (TBA)	ND	1	20	6.7	ug/L	11/14/2014 1116
Toluene	ND	1	1.0	0.33	ug/L	11/14/2014 1116
Xylenes (total)	ND	1	1.0	0.33	ug/L	11/14/2014 1116
Surrogate	Q % Rec	Acceptano Limit	e			
Bromofluorobenzene	91	70-130				
1,2-Dichloroethane-d4	100	70-130				
Toluene-d8	107	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"

Sample ID: PQ60896-002

Batch: 60896 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	1200	1	118	70-130	11/14/2014 1033
tert-Amyl methyl ether (TAME)	50	51	1	102	70-130	11/14/2014 1033
Benzene	50	48	1	97	70-130	11/14/2014 1033
tert-Butyl formate (TBF)	250	260	1	105	70-130	11/14/2014 1033
1,2-Dichloroethane	50	53	1	106	70-130	11/14/2014 1033
Diisopropyl ether (IPE)	50	49	1	97	70-130	11/14/2014 1033
3,3-Dimethyl-1-butanol	1000	1200	1	117	70-130	11/14/2014 1033
Ethanol	5000	6400	1	128	60-140	11/14/2014 1033
Ethylbenzene	50	53	1	107	70-130	11/14/2014 1033
Ethyl-tert-butyl ether (ETBE)	50	49	1	99	70-130	11/14/2014 1033
Methyl tertiary butyl ether (MTBE)	50	49	1	97	70-130	11/14/2014 1033
Naphthalene	50	55	1	110	70-130	11/14/2014 1033
tert-butyl alcohol (TBA)	1000	1100	1	113	70-130	11/14/2014 1033
Toluene	50	50	1	101	70-130	11/14/2014 1033
Xylenes (total)	100	110	1	107	70-130	11/14/2014 1033
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	96	70-130				
1,2-Dichloroethane-d4	94	70-130				
Toluene-d8	94	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"

SHEALY

Chain of Custody Record

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 42308

SHEALY ENVIRONMENTAL SERVICES, INC.

Terry Environmental		Hepcut in Ca	meer Multip		Toughane No. / E-may		20.00
Address		Sampler's S	1164 \$ (6,0		Toephone No. / E-may 873	-8200	Clocks No.
Address Fo Box 25 Summerville SE Profesionare	δφ Code	- LA	~ /2/		Analysis (Attach list if more eq.	rice is nerided)	Page L of 1
Summerville 32 Window Must Properate 2217.9A	29484 80. No.		n Kni	No of Contemps	4, 62 0.8		PK06067
Sample ID / Description [Contained for copy as my be exempted on one final)	Date	Time 3	Mainx Value	Sy Areamostra Types	864 , Marth,		Rominks / Gooler I.D.
02314 - MW 17	11/6/2014			Х	2		HOMEN COORDER F.D.
02314 - MW 19		1656	444		3		
02314 - MW 20		1730					
02314 - MW 19 Dup		1713					
02314.58		1640	4		2		
		_					
Furn Around Time Required (Prior lab approval required Standard Rush (Specify)				Possal for Mazard I demissal lab Non-Hazard Figures	_ii nom De □ Sxia Amitant _i Poiser. □	QC Renulre	menis (Spacity)
Remarked by then 1/2/2		Date 11/10/11	Time	1. Received by		Dute	Time
? Refriguished by		Cals	Tvre	2. Received by		Date	Time
i. Relinquished by		Date	Time	3. Received by		Dale	Time
d. Rownquished by		Оэле	Tarrae:	4. Laboratory recreased by	-	Dare	Time
Note: All samples are retaine unless other arrang	ed for four wee gaments are n	aks from receip nade.	ot .	LAB USE ONLY Pacefred on ice (Circle)	No Ice Pack Renny	or Temp. \-\ \	

DISTRIBUTION; WHITE & YELLOW-Return to Isboratory with Sample(s); PINK-Field-Client Copy

Gocument Number: F-AD-133 Effective Date: 08-01-2014

Sheety Environmental Services, Inc. Occurrent Number: F AD 016 Revision Number: 15

Page 1 of 1 Replaces Date: 03/07/14 Effective Date: 07/15/14

Sample Receipt Checklist (SRC)

14	_		oampio Rocopi Checkisi (Sixe.)
Mient:	<u> Lexir</u>	4 56	Cooler Inspected by/date: mum/lowy Lot#: @koloolo7
Means o	of receipt		SI Client UPS FedEx Airborne Exp Other
Yes 🗍	No L		1. Were custody seals present on the cooler?
Yes 🗌	No	NA [
			rature upon receipt/Derived (corrected) temperature upon receipt:
		M tempe N°C	/ / °C / / °C / / °C
Methori			Blank Against Bottles R Gun ID: #3 R Gun Correction Factor 9-0 °C
	of cools		Wet Ice Blue Ice Dry Ice None
			3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified?
	., -	 	PM notified by SRC, phone, note (circle one), other:
Yes 📋	No 🗌	NA 🗗	(For coolers received via commercial courier, PMs are to be notified
ĺ			immediately.)
res 🔲	No 🔲	NA 🔼	4. Is the commercial courier's packing slip attached to this form?
Yes 🔲	No 🔲		5. Were proper custody procedures (relinquished/received) followed?
Yes 🔲	No 🔲	NA Z	5a Were samples relinquished by client to commercial courier?
Yes 📶	No 🔙		6. Were sample IDs listed on the COC?
res 🗷	No 🗍		7. Were sample IDs listed on all sample containers?
es 📶	No 🗌		8. Was collection date & time listed on the COC?
es 🗾	No 🗌		9. Was collection date & time listed on all sample containers?
(es 🔀	No 🔲	-	10. Did all container label information (ID, date, time) agree with the COC?
es 🗾	No 🗌	***************************************	11. Were tests to be performed listed on the COC?
es 🖊	No 🗌		12. Did all samples arrive in the proper containers for each test?
es 🖊	No	***************************************	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
es 📝	No 🗌		14 Was adequate sample volume available?
es 🛮	No 🔲		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
es 🔲	No L		16. Were any samples containers missing?
	No 🗸		17. Were there any excess samples not listed on COC?
	No 🗾	NA 🗍	18 Were hubbles present >"pea-size" (½" or 6mm in diameter) in any VOA vials?
	No 🔲	NA A	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
	No 🗆	NA 7	20. Were all cyanide and/or sulfide samples received at a pH >12?
		ام <u></u>	21. Were all applicable NHMTKN/cyanide/phenol (<0.2mg/L) samples free of
cs 📗	No L.	NA 🕢	residual chlorine?
es 🗐	No 🔲	NA	22. Were collection temperatures documented on the COC for NC samples?
es 🗍	No 🖂	NA 🔀	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations,
·	1501	إ صا ١٩٨	etc) correctly transcribed from the COC into the comment section in LIMS?
:5 🔲 🛚	No 🕢		24. Was the quote number used taken from the container label?
umple F	reserva	tion ()	fust be completed for any sample(s) incorrectly preserved or with headspace.)
imple(s)	***************************************	were received incorrectly preserved and were adjusted
-		nple rece	iving with(H ₂ SO ₄ ,HNO ₃ .HCl,NaOH) using SR #
mple(s)			were received with hubbles >6 mm in diamuter.
mple(s))		were received with TRC >0.2 mg/L (If #21 is No)
	metal.	r Project	Sample(s) pH verified to be > 2 by Date:
mple(s)			were not received at a pH of <2 and were adjusted accordingly using SR#
**************************************	bels app	lied by:	MC v. Verified by: MC Date: \\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
mments:			

Report of Analysis

Terry Environmental Services, Inc. 1753 North Main Street Summerville, SC 29483 Attention: Tim Mettlen

Project Name: Windsor Mart

Project Number:2171.9A

Lot Number: PK19024 Date Completed: 11/26/2014

> 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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SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: PK19024

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

Collection times were taken from the sample container labels.

Shealy Environmental Services, Inc.

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

Sample Summary Terry Environmental Services, Inc.

Lot Number: PK19024

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314-MW16	Aqueous	11/19/2014 0930	11/19/2014
002	02314-MW16 Dup	Aqueous	11/19/2014 0932	11/19/2014
003	02314-FB1	Aqueous	11/19/2014 0905	11/19/2014
004	ТВ	Aqueous	11/19/2014	11/19/2014

(4 samples)

Executive Summary

Terry Environmental Services, Inc.

Lot Number: PK19024

Sample Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002 02314-MW16 Dup	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.44	J	ug/L	6

(1 detection)

Client: Terry Environmental Services, Inc.

Laboratory ID: PK19024-001

Description: 02314-MW16

Matrix: Aqueous

Date Sampled:11/19/2014 0930 Date Received: 11/19/2014

5030B

Run Prep Method

Analytical Method Dilution Analysis Date Analyst Prep Date Batch 8260B 11/24/2014 1806 61566

Parameter	CAS Number		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		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		eptance imits					
1,2-Dichloroethane-d4	90 7	0-130					
Bromofluorobenzene	94 7	0-130					
Toluene-d8	94 7	0-130					

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

Client: Terry Environmental Services, Inc.

Laboratory ID: PK19024-002

Description: 02314-MW16 Dup

Matrix: Aqueous

Date Sampled:11/19/2014 0932 Date Received: 11/19/2014

5030B

Run Prep Method

Analytical Method Dilution Analysis Date Analyst Prep Date Batch 8260B 11/24/2014 1829 61566

Parameter		CAS Number	Analytical Method	Result	Q F	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	0.44	J	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 Accep % Recovery Lim	tance its						
1,2-Dichloroethane-d4		90 70-	130						
Bromofluorobenzene		93 70-	130						
Toluene-d8		93 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

Client: Terry Environmental Services, Inc.

Laboratory ID: PK19024-003

Description: 02314-FB1

Matrix: Aqueous

Date Sampled:11/19/2014 0905 Date Received: 11/19/2014

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 5030B 8260B 11/21/2014 1421 61464

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	Run 1 Acce Q % Recovery Lir	ptance nits					
1,2-Dichloroethane-d4	90 70	-130					
Bromofluorobenzene	96 70	-130					
Toluene-d8	93 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

Client: Terry Environmental Services, Inc.

Laboratory ID: PK19024-004

Description: TB

Run Prep Method

Matrix: Aqueous

Date Sampled:11/19/2014 Date Received: 11/19/2014

5030B

Analytical Method Dilution Analysis Date Analyst Prep Date Batch 8260B 11/21/2014 1443 61464

Parameter	1	CAS Number	Analytical Method	Result	Q PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4		ND	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	9	94-05-8	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)	7	62-75-4	8260B	ND	5.0	1.0	ug/L	1
1,2-Dichloroethane	1	07-06-2	8260B	ND	1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	1	08-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	6	24-95-3	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)	6	37-92-3	8260B	ND	1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	16	34-04-4	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	1	08-88-3	8260B	ND	1.0	0.33	ug/L	1
Xylenes (total)	13	30-20-7	8260B	ND	1.0	0.33	ug/L	1
Surrogate	Run 1 Q % Recov	Accept ery Limi	ance its					
1,2-Dichloroethane-d4	91	70-1	30					
Bromofluorobenzene	97	70-1	30					
Toluene-d8	94	70-1	30					

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

QC Summary

Sample ID: PQ61464-001 Batch: 61464

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q D	il PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND	1	20	6.7	ug/L	11/21/2014 1035
tert-Amyl methyl ether (TAME)	ND	1	10	0.20	ug/L	11/21/2014 1035
Benzene	ND	1	1.0	0.13	ug/L	11/21/2014 1035
tert-Butyl formate (TBF)	ND	1	5.0	1.0	ug/L	11/21/2014 1035
1,2-Dichloroethane	ND	1	1.0	0.15	ug/L	11/21/2014 1035
Diisopropyl ether (IPE)	ND	1	1.0	0.40	ug/L	11/21/2014 1035
3,3-Dimethyl-1-butanol	ND	1	20	1.0	ug/L	11/21/2014 1035
Ethanol	ND	1	100	33	ug/L	11/21/2014 1035
Ethylbenzene	ND	1	1.0	0.33	ug/L	11/21/2014 1035
Ethyl-tert-butyl ether (ETBE)	ND	1	1.0	0.20	ug/L	11/21/2014 1035
Methyl tertiary butyl ether (MTBE)	ND	1	1.0	0.40	ug/L	11/21/2014 1035
Naphthalene	ND	1	1.0	0.40	ug/L	11/21/2014 1035
tert-butyl alcohol (TBA)	ND	1	20	6.7	ug/L	11/21/2014 1035
Toluene	ND	1	1.0	0.33	ug/L	11/21/2014 1035
Xylenes (total)	ND	1	1.0	0.33	ug/L	11/21/2014 1035
Surrogate	Q % Rec	Acceptar Limit	nce			
Bromofluorobenzene	98	70-130)			
1,2-Dichloroethane-d4	91	70-130)			
Toluene-d8	95	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"

Sample ID: PQ61464-002 Batch: 61464

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	840	1	84	70-130	11/21/2014 0950
tert-Amyl methyl ether (TAME)	50	46	1	93	70-130	11/21/2014 0950
Benzene	50	48	1	96	70-130	11/21/2014 0950
tert-Butyl formate (TBF)	250	230	1	90	70-130	11/21/2014 0950
1,2-Dichloroethane	50	48	1	95	70-130	11/21/2014 0950
Diisopropyl ether (IPE)	50	48	1	96	70-130	11/21/2014 0950
3,3-Dimethyl-1-butanol	1000	820	1	82	70-130	11/21/2014 0950
Ethanol	5000	4300	1	86	60-140	11/21/2014 0950
Ethylbenzene	50	50	1	99	70-130	11/21/2014 0950
Ethyl-tert-butyl ether (ETBE)	50	47	1	93	70-130	11/21/2014 0950
Methyl tertiary butyl ether (MTBE)	50	47	1	95	70-130	11/21/2014 0950
Naphthalene	50	49	1	99	70-130	11/21/2014 0950
tert-butyl alcohol (TBA)	1000	890	1	89	70-130	11/21/2014 0950
Toluene	50	48	1	96	70-130	11/21/2014 0950
Xylenes (total)	100	97	1	97	70-130	11/21/2014 0950
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	97	70-130				
1,2-Dichloroethane-d4	89	70-130				
Toluene-d8	95	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"

Sample ID: PQ61566-001 Batch: 61566

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q [Dil PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1 20	6.7	ug/L	11/24/2014 1052
tert-Amyl methyl ether (TAME)	ND		1 10	0.20	ug/L	11/24/2014 1052
Benzene	ND		1 1.0	0.13	ug/L	11/24/2014 1052
tert-Butyl formate (TBF)	ND		1 5.0	1.0	ug/L	11/24/2014 1052
1,2-Dichloroethane	ND		1 1.0	0.15	ug/L	11/24/2014 1052
Diisopropyl ether (IPE)	ND		1 1.0	0.40	ug/L	11/24/2014 1052
3,3-Dimethyl-1-butanol	ND		1 20	1.0	ug/L	11/24/2014 1052
Ethanol	ND		1 100	33	ug/L	11/24/2014 1052
Ethylbenzene	ND		1 1.0	0.33	ug/L	11/24/2014 1052
Ethyl-tert-butyl ether (ETBE)	ND		1 1.0	0.20	ug/L	11/24/2014 1052
Methyl tertiary butyl ether (MTBE)	ND		1 1.0	0.40	ug/L	11/24/2014 1052
Naphthalene	ND		1 1.0	0.40	ug/L	11/24/2014 1052
tert-butyl alcohol (TBA)	ND		1 20	6.7	ug/L	11/24/2014 1052
Toluene	ND		1 1.0	0.33	ug/L	11/24/2014 1052
Xylenes (total)	ND		1 1.0	0.33	ug/L	11/24/2014 1052
Surrogate	Q % Rec	Accepta Limi				
Bromofluorobenzene	93	70-13	30			
1,2-Dichloroethane-d4	86	70-13	30			
Toluene-d8	93	70-13	30			

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"

Sample ID: PQ61566-002 Batch: 61566

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	860	1	86	70-130	11/24/2014 1007
tert-Amyl methyl ether (TAME)	50	44	1	88	70-130	11/24/2014 1007
Benzene	50	44	1	88	70-130	11/24/2014 1007
tert-Butyl formate (TBF)	250	220	1	88	70-130	11/24/2014 1007
1,2-Dichloroethane	50	46	1	92	70-130	11/24/2014 1007
Diisopropyl ether (IPE)	50	45	1	90	70-130	11/24/2014 1007
3,3-Dimethyl-1-butanol	1000	850	1	85	70-130	11/24/2014 1007
Ethanol	5000	4500	1	91	60-140	11/24/2014 1007
Ethylbenzene	50	47	1	94	70-130	11/24/2014 1007
Ethyl-tert-butyl ether (ETBE)	50	43	1	86	70-130	11/24/2014 1007
Methyl tertiary butyl ether (MTBE)	50	44	1	88	70-130	11/24/2014 1007
Naphthalene	50	52	1	103	70-130	11/24/2014 1007
tert-butyl alcohol (TBA)	1000	910	1	91	70-130	11/24/2014 1007
Toluene	50	45	1	90	70-130	11/24/2014 1007
Xylenes (total)	100	92	1	92	70-130	11/24/2014 1007
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	93	70-130				
1,2-Dichloroethane-d4	87	70-130				
Toluene-d8	91	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"

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Address P.O
City

Chain of Custody Record

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 42218

SHEALY ENVIRONMENTAL SERVICES, INC.

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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: Terry Pov. Cooler Inspected by/date: CMT/11/19/14 Lot #: PK-19024
Means of receipt: SESI Client UPS FedEx Airborne Exp Other
Yes No 1. Were custody seals present on the cooler?
Yes No No NA 2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
1944 /2,3,2,2°C / / °C / / °C / / °C
Method: Temperature Blank Against Bottles IR Gun ID: #4 IR Gun Correction Factor: O.) °C
Method of coolant: Wet Ice Blue Ice Dry Ice None
Yes No No No No No No No No No No No No No
Yes No NA 4. Is the commercial courier's packing slip attached to this form?
Yes No \(\) 5. Were proper custody procedures (relinquished/received) followed?
Yes No No NA Sa Were samples relinquished by client to commercial courier?
Yes No 6. Were sample IDs listed on the COC?
Yes No 7. Were sample IDs listed on all sample containers?
Yes No S CWalte 8. Was collection date & time listed on the COC?
Yes No 9. Was collection date & time listed on all sample containers?
Yes No 10. Did all container label information (ID, date, time) agree with the COC?
Yes No No 11. Were tests to be performed listed on the COC?
Yes No 12. Did all samples arrive in the proper containers for each test?
Yes No 13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes No 14. Was adequate sample volume available?
Yes No \(\) 15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes No 16. Were any samples containers missing?
Yes No No 17. Were there any excess samples not listed on COC?
Yes No NA 18. Were bubbles present > 'pea-size' (%''or 6mm in diameter) in any VOA vials?
Yes ☐ No ☐ NA ☐ 19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐ No ☐ NA ☐ 20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes No No NA 21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes No NA 22. Were collection temperatures documented on the COC for NC samples?
Yes No No NA 23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc) correctly transcribed from the COC into the comment section in LIMS?
Yes No U 16675 24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)
accordingly in sample receiving with (H ₂ SO ₄ ,HNO ₃ ,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
Sample labels applied by: Verified by: Date: 1/19/14
Comments:
Times taken from bottle labels,
The state of the s

Report of Analysis

Terry Environmental Services, Inc. 1753 North Main Street Summerville, SC 29483 Attention: Tim Mettlen

Project Name: Windsor Mart

Project Number:2171.9A

Lot Number: QB04023 Date Completed: 02/10/2015

> Kelly M. Nance Project Manager

KellgM name_



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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SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: QB04023

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.

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

Sample Summary Terry Environmental Services, Inc.

Lot Number: QB04023

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314-MW21	Aqueous	02/02/2015 1816	02/04/2015
002	02314-MW22	Aqueous	02/02/2015 1744	02/04/2015
003	02314-MW23	Aqueous	02/02/2015 1800	02/04/2015
004	02314-MW24	Aqueous	02/02/2015 1638	02/04/2015
005	02314-MW25	Aqueous	02/02/2015 1709	02/04/2015
006	02314-MW26	Aqueous	02/02/2015 1900	02/04/2015
007	02314-MW27	Aqueous	02/02/2015 1920	02/04/2015
800	02314-DW2	Aqueous	02/02/2015 1846	02/04/2015
009	02314-DW3	Aqueous	02/02/2015 1612	02/04/2015
010	02314-DW2 DUP	Aqueous	02/02/2015 1848	02/04/2015
011	02314-FB	Aqueous	02/02/2015 1550	02/04/2015
012	02314-TB	Aqueous	02/02/2015	02/04/2015

(12 samples)

Executive Summary Terry Environmental Services, Inc.

Lot Number: QB04023

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	02314-MW21	Aqueous	Lead	6010C	0.0067	J	mg/L	5
002	02314-MW22	Aqueous	Lead	6010C	0.019		mg/L	6
003	02314-MW23	Aqueous	tert-Amyl alcohol (TAA)	8260B	2700		ug/L	7
003	02314-MW23	Aqueous	Benzene	8260B	1600		ug/L	7
003	02314-MW23	Aqueous	Ethylbenzene	8260B	540		ug/L	7
003	02314-MW23	Aqueous	Toluene	8260B	5000		ug/L	7
003	02314-MW23	Aqueous	Xylenes (total)	8260B	4000		ug/L	7
003	02314-MW23	Aqueous	Lead	6010C	0.016		mg/L	7
004	02314-MW24	Aqueous	Benzene	8260B	2.1		ug/L	8
004	02314-MW24	Aqueous	Xylenes (total)	8260B	0.81	J	ug/L	8
004	02314-MW24	Aqueous	Lead	6010C	0.0042	J	mg/L	8
005	02314-MW25	Aqueous	Benzene	8260B	0.34	J	ug/L	9
005	02314-MW25	Aqueous	Lead	6010C	0.034		mg/L	9
007	02314-MW27	Aqueous	tert-Amyl alcohol (TAA)	8260B	24		ug/L	11
007	02314-MW27	Aqueous	Benzene	8260B	3.1		ug/L	11
007	02314-MW27	Aqueous	Xylenes (total)	8260B	3.4		ug/L	11
007	02314-MW27	Aqueous	Lead	6010C	0.0098	J	mg/L	11
800	02314-DW2	Aqueous	Lead	6010C	0.013		mg/L	12
009	02314-DW3	Aqueous	tert-Amyl alcohol (TAA)	8260B	24		ug/L	13
009	02314-DW3	Aqueous	Benzene	8260B	46		ug/L	13
009	02314-DW3	Aqueous	Ethylbenzene	8260B	0.61	J	ug/L	13
009	02314-DW3	Aqueous	Naphthalene	8260B	1.3		ug/L	13
009	02314-DW3	Aqueous	Toluene	8260B	7.8		ug/L	13
009	02314-DW3	Aqueous	Xylenes (total)	8260B	24		ug/L	13
010	02314-DW2 DUP	Aqueous	Lead	6010C	0.012		mg/L	14

(25 detections)

Description: 02314-MW21

Date Sampled:02/02/2015 1816

Date Received: 02/04/2015

Laboratory ID: QB04023-001

Matrix: Aqueous

V	′olatil	le C	Organi	c Co	omp	ound	'd st	y GC/ľ	VIS

Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date Ana 2/09/2015 1542 El		ate Batch 67278			
Parameter		C <i>A</i> Numbe	,	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 Ac Recovery	cceptance Limits					
1,2-Dichloroethane-d4	_	93	70-130			•		
Bromofluorobenzene		99	70-130					
Toluene-d8		100	70-130					

EDB & DBCP by Microextraction

Run Prep Method	Analytical Method Dil	ution Analys	sis Date Analy	st Prep Date	Batch			
1 8011	8011	1 02/06/2	015 1719 MEN	VI 02/05/2015 (0940 66985			
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	Rur Q % Reco							
1,1,1,2-Tetrachloroethane	92	2 57-1	37					

ICP-AES

Run 1	Prep Method 3005A	Analytical Method 6010C		Analysis Date 12/06/2015 0218	,			Batch 67002			
			С	AS Analyt	ical						
Para	meter		Numb	oer Meth	od R	Result	Q	PQL	MDL	Units	Run
Lead			7439-9	2-1 601	00. 0	0067	1 (0.010	0.0021	ma/I	1

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
P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

 $ND = Not \ detected \ at \ or \ above \ the \ MDL \qquad J = Estimated \ result < PQL \ and \ge MDL \qquad P = The \ RF \ Where \ applicable, \ all \ soil \ sample \ analysis \ are \ reported \ on \ a \ dry \ weight \ basis \ unless \ flagged \ with \ a \ "W"$

Description: 02314-MW22

Laboratory ID: QB04023-002 Matrix: Aqueous

Date Sampled:02/02/2015 1744 Date Received: 02/04/2015

Run Prep Method	Analytical Method			Compounds sis Date Analys	t Prep [Batch			
1 5030B	8260B	1	02/09/2	015 1605 EH1			67278			
_			CAS	Analytical		_				_
Parameter		Nun	nber	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	Accepta Limi							
1,2-Dichloroethane-d4		94	70-1	30						
Bromofluorobenzene		98	70-1	30						
Toluene-d8		100	70-1	30						
	ED	B & DI	3CP	by Microext	tractio	n				
Run Prep Method 1 8011	Analytical Method 8011	Dilution 1	,		t Prep [02/05/20		Batch 0 66985			
Parameter		Nun	CAS nber	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-		8011	ND		0.019	0.019	ug/L	1
Surrogate		Run 1 Recovery	Accepta Limi							
1,1,1,2-Tetrachloroethane		134	57-1	27						

ICP-AES

Analytical

Method

6010C

02/06/2015 0244

CAS

Number

7439-92-1

PQL = Practical	quantitation	limit
-----------------	--------------	-------

Run Prep Method

Parameter

Lead

3005A

Analyst Prep Date

CDF 02/05/2015 1136 67002

Result Q

0.019

MDL

0.0021

Units

mg/L

Batch

PQL

0.010

Analytical Method Dilution Analysis Date

6010C

Run

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Date Received: 02/04/2015

Description: 02314-MW23 Date Sampled:02/02/2015 1800 Laboratory ID: QB04023-003

Matrix: Aqueous

	Volatil	e Orga	anic Compo	ounds	by GC/MS
Run Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis D 02/09/2015	,			Batch 7278		
Parameter		(Num		nalytical Method	Result	Q P	QL MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	5-4	8260B	2700	20	000 670	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	5-8	8260B	ND	10	000 20	ug/L	1
Benzene		71-4	3-2	8260B	1600	1	00 13	ug/L	1
tert-Butyl formate (TBF)		762-7	5-4	8260B	ND	5	100	ug/L	1
1,2-Dichloroethane		107-0	6-2	8260B	ND	1	00 15	ug/L	1
Diisopropyl ether (IPE)		108-2	0-3	8260B	ND	1	00 40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND	20	000 100	ug/L	1
Ethanol		64-1	7-5	8260B	ND	100	3300	ug/L	1
Ethylbenzene		100-4	1-4	8260B	540	1	00 33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND	1	00 20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND	1	00 40	ug/L	1
Naphthalene		91-2	0-3	8260B	ND	1	00 40	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND	20	000 670	ug/L	1
Toluene		108-8	8-3	8260B	5000	1	00 33	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	4000	1	00 33	ug/L	1
Surrogate	Q %	Run 1 A Recovery	Acceptance Limits)					
1,2-Dichloroethane-d4		92	70-130			·		·	
Bromofluorobenzene		98	70-130						
Toluene-d8		100	70-130						

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method Di 8011	,	,	t Prep Dat 02/05/2015	e Batch 5 0940 66985			
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	Ru Q % Rec	n 1 Accepta covery Limit						
1,1,1,2-Tetrachloroethane	8	7 57-13	37					

ICP-AES

Run Prep Method 1 3005A	Analytical Method 6010C				Date 015 1136	Batch 67002			
		CAS	Analytical						
Parameter		Number	Method	Result	Q	PQL	MDL	Units	Run
Lead		7439-92-1	6010C	0.016	(0.010	0.0021	ma/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 < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: 02314-MW24

Date Sampled:02/02/2015 1638

Date Received: 02/04/2015

Laboratory ID: QB04023-004

Matrix: Aqueous

Run Prep Method 1 5030B	Analytical Method 8260B			s Date Analy 15 1629 EH	•	Date	Batch 67278			
Parameter		C Numl	:AS her	Analytical Method	Result	Q	PQL	MDL	Units	Rur
tert-Amyl alcohol (TAA)		75-8		8260B	ND	•	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-0		8260B	ND		10	0.20	ug/L	1
Benzene		71-4		8260B	2.1		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-7		8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107-0		8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)		108-2		8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9		8260B	ND		20	1.0	ug/L	1
Ethanol		64-1		8260B	ND		100	33	ug/L	1
Ethylbenzene		100-4		8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-2	0-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND		20	6.7	ug/L	1
Toluene		108-8	8-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	0.81	J	1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 A	ccepta							
1,2-Dichloroethane-d4		93	70-13	0						
Bromofluorobenzene		98	70-13	0						
Toluene-d8		100	70-13	0						
	EI	OB & DB	SCP b	y Microex	ktractio	on				
Run Prep Method 1 8011	Analytical Method 8011	d Dilution /	Analysi	s Date Analy	st Prep	Date	Batch 940 66985			
Parameter			AS	Analytical	Result	Q	PQL	MDL	Units	Rui
1,2-Dibromoethane (EDB)		Numl 106-9		Method 8011	ND	٧	0.019	0.019	ug/L	1
1,2-DIDI OHIOEUIAHE (EDB)					ND		0.019	0.019	ug/L	'
Surrogate	Q %	Run 1 A Recovery	ccepta Limits	nce s						
1,1,1,2-Tetrachloroethane		88	57-13	7						
			ICF	P-AES						
Run Prep Method 1 3005A	Analytical Method		,	,	st Prep		Batch 36 67002			

CAS

Number

7439-92-1

PQL = Practical quantitation limit

Parameter

Lead

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

Analytical

Method

6010C

H = Out of holding time N = Recovery is out of criteria

MDL

0.0021

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Result

0.0042

Q

PQL

0.010

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

•

Units

mg/L

Run

Date Sampled:02/02/2015 1709 Date Received: 02/04/2015

Laboratory ID: QB04023-005 Description: 02314-MW25

Matrix: Aqueous

	Volati	le Organic C	Compound	ls by G	C/MS	<u> </u>			
Run Prep Method 1 5030B	Analytical Method 8260B	•	is Date Analy 015 1652 EH	•	Date	Batch 67278			
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 ND		10	0.20	ug/L ug/L	1
Benzene		71-43-2	8260B	0.34	J	1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5	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
Ayleries (total)				112		1.0	0.00	ug/ L	·
Surrogate	Q %	Run 1 Accepta Recovery Limit							
1,2-Dichloroethane-d4		93 70-13	30						
Bromofluorobenzene		98 70-13	30						
Toluene-d8		100 70-13	30						
	FΩ	B & DBCP b	ov Microex	dractio	n				
Run Prep Method	Analytical Method		2	st Prep[Batch			
1 8011	8011	1 02/06/20	015 1800 MEI	VI 02/05/20	015 094	0 66985			
Parameter		CAS	Analytical	Result	Q	PQL	MDL	Units	Run
		Number	Method		ч	•			
1,2-Dibromoethane (EDB)		106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q %	Run 1 Accepta Recovery Limit							
1,1,1,2-Tetrachloroethane		87 57-13	37						
		ICF	P-AES						
Run Prep Method 1 3005A	Analytical Method 6010C	Dilution Analys	is Date Analy	rst Prep [F 02/05/20		Batch 86 67002			

CAS

Number

7439-92-1

PQL = Practical quantitation limit

Parameter

Lead

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

Result

0.034

Q

PQL

0.010

Analytical

Method

6010C

H = Out of holding time N = Recovery is out of criteria

MDL

0.0021

Units

mg/L

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

Run

Date Sampled:02/02/2015 1900 Date Received: 02/04/2015

Description: 02314-MW26

Laboratory ID: QB04023-006

Matrix: Aqueous

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	Analysis 02/10/20		,	Prep I	Date	Batch 67342	
Doromotor			CAS	Analyti		Docult	0	DOL	

	CAS	S Analytical					
Parameter	Number	Method	Result	Q PQI	_ MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	2	0 6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8 8260B	ND	10	0.20	ug/L	1
Benzene	71-43-2	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	8 8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8 8260B	ND	2	0 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	8 8260B	ND	1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	1 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	2	6.7	ug/L	1
Toluene	108-88-3	8 8260B	ND	1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	7 8260B	ND	1.0	0.33	ug/L	1
Surrogate		eptance imits					

Volatile Organic Compounds by GC/MS

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 8011 8011 02/06/2015 1810 MEM 02/05/2015 0940 66985

		CAS	Analytical						
Parameter		Number	Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND		0.019	0.019	ug/L	1
Surrogata	0	Run 1 Accept							

Surrogate	Q	% Recovery		_
1 1 1 0 T-t		0.4	F7 107	_

1,1,1,2-Tetrachloroethane 57-137

ICP-AES

Run 1	Prep Method 3005A	Analytical Method 6010C		Analysis Date 02/06/2015 0302	 •	Batch 67002			
Para	ameter		Nur	CAS Analyt	Result O	POL	MDL	Units	Run

PQL = Practical quantitation limit ND = Not detected at or above the MDL

Lead

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

ND

0.010

6010C

H = Out of holding time N = Recovery is out of criteria

0.0021

mg/L

 $J = Estimated result < PQL and <math>\geq MDL$ Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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7439-92-1

Description: 02314-MW27

Date Sampled:02/02/2015 1920

Date Received: 02/04/2015

Laboratory ID: QB04023-007

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis Da 02/10/2015 (,	•		Batch 67342			
Parameter		(Num		nalytical Method	Result	Q F	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	24		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	5-8	8260B	ND		10	0.20	ug/L	1
Benzene		71-4	3-2	8260B	3.1		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-7	5-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)		108-2	.0-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND		20	1.0	ug/L	1
Ethanol		64-1	7-5	8260B	ND		100	33	ug/L	1
Ethylbenzene		100-4	1-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0)4-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	65-0	8260B	ND		20	6.7	ug/L	1
Toluene		108-8	8-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	3.4		1.0	0.33	ug/L	1
Surrogate		Run 1 A Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		97	70-130							
Bromofluorobenzene		104	70-130							
Toluene-d8		105	70-130							

EDB & DBCP by Microextraction

Run Prep Method	Analytical Method Dilution Analys	is Date Analy	st Prep Date	Batch			
1 8011	8011 1 02/06/20	015 1820 MEN	<i>I</i> 02/05/2015	0940 66985			
_	CAS	Analytical					
Parameter	Number	Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.019	ug/L	1
Surrogate	Run 1 Accepta Q % Recovery Limit						
1,1,1,2-Tetrachloroethane	96 57-1	37					

ICP-AES

Run F	Prep Method 3005A	Analytical Method 6010C		alysis Date 06/2015 0306	,	•	Date 015 1136	Batch 67002			
			CA	S Analyt	ical						
Param	eter		Numbe	r Meth	od	Result	Q	PQL	MDL	Units	Run
Lead			7/30-02-	1 60	100	U UU08	1	0.010	0.0021	ma/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 < 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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Date Sampled:02/02/2015 1846 Date Received: 02/04/2015

Laboratory ID: QB04023-008 Matrix: Aqueous

Description: 02314-DW2

1 5030B	Analytical Method 8260B		sis Date Analys 2015 0157 PMM2		Batch 67342			
Danamatan		CAS	Analytical	Decult O	DOI	MDI	Lleito	Dive
Parameter		Number	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		Run 1 Accept Recovery Lim	ance ts					
1,2-Dichloroethane-d4		97 70-1	30					
Bromofluorobenzene		102 70-1	30					
Toluene-d8		104 70-1	30					
			by Microext					
Run Prep Method 1 8011	Analytical Method 8011			t Prep Date 02/05/2015 (Batch 940 66985			
		CAS	Analytical					
Daramastar		Number	Method	Result Q	PQL	MDL	Units	Rur
Parameter								
		106-93-4	8011	ND	0.020	0.020	ug/L	1
1,2-Dibromoethane (EDB)		106-93-4 Run 1 Accept Recovery Lim	ance	ND	0.020	0.020	ug/L	1
1,2-Dibromoethane (EDB) Surrogate 1,1,1,2-Tetrachloroethane		Run 1 Accept	ance ts	ND	0.020	0.020	ug/L	1
1,2-Dibromoethane (EDB) Surrogate		Run 1 Accept Recovery Lim 101 57-1	ance ts	ND	0.020	0.020	ug/L	1
1,2-Dibromoethane (EDB) Surrogate 1,1,1,2-Tetrachloroethane	Q %1	Run 1 Accept Recovery Lim 101 57-1	ance ts 37 P-AES			0.020	ug/L	1
1,2-Dibromoethane (EDB) Surrogate		Run 1 Accept Recovery Lim 101 57-1 IC Dilution Analys	ance ts 37 P-AES sis Date Analys		Batch	0.020	ug/L	1

PQL = Practical quantitation limit ND = Not detected at or above the MDL

Parameter

Lead

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

Result

0.013

Q

PQL

0.010

Method

6010C

Number

7439-92-1

H = Out of holding time N = Recovery is out of criteria

MDL

0.0021

Units

mg/L

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" Run

Description: 02314-DW3

Date Sampled:02/02/2015 1612 Date Received: 02/04/2015

Laboratory ID: QB04023-009

Matrix: Aqueous

South						/h 4C			
1 5030B 8260B 1 02/10/2015 0219 PMM2 67342 Parameter CAS Analytical Method Result Q PQL MDL Units Ruir terrt-Amyl alcohol (TAA) 75-85-4 8260B 24 20 6.7 ug/L 1 1 1 1 1 1 1 1 1				•					
Number Number Number Nethod Result Q PQL MDL Units Rur Letr-Amyl alcohol (TAA) 75-85-4 8260B 24 20 6.7 ug/L 1 1 1 1 1 1 1 1 1	Run Prep Method 1 5030B				•				
Number Number Number Nethod Result Q PQL MDL Units Rur Letr-Amyl alcohol (TAA) 75-85-4 8260B 24 20 6.7 ug/L 1 1 1 1 1 1 1 1 1			CAS	Analytical					
Sert-Amyl methyl ether (TAME)	Parameter			-	Result C) PQL	MDL	Units	Rur
Benzene	tert-Amyl alcohol (TAA)		75-85-4	8260B	24	20	6.7	ug/L	1
Table Tabl	tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0.20	ug/L	1
1,2-Dichloroethane	Benzene		71-43-2	8260B	46	1.0	0.13	ug/L	1
Dispropyle ther (IPE)	tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.0	1.0	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 100 33 ug/L 1 Ethylbenzene 100-41-4 8260B ND 1.0 0.33 ug/L 1 Ethyltertiary 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 Naphthalene 91-20-3 8260B ND 20 6.7 ug/L 1 Toluene 108-88-3 8260B ND 20 6.7 ug/L 1 Toluene 108-88-3 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 15 Naphthalen	1,2-Dichloroethane		107-06-2	8260B	ND	1.0	0.15	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 100 33 ug/L 1 Ethylbenzene 100-41-4 8260B ND 1.0 0.33 ug/L 1 Ethyltertiary 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 Naphthalene 91-20-3 8260B ND 20 6.7 ug/L 1 Toluene 108-88-3 8260B ND 20 6.7 ug/L 1 Toluene 108-88-3 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 1330-20-7 8260B ND 20 6.7 ug/L 1 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 14 Naphthalene 15 Naphthalen	Diisopropyl ether (IPE)		108-20-3	8260B	ND	1.0	0.40	ug/L	1
Ethyleter 164-17-5	3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	20	1.0		1
Ethyl-tert-butyl ether (ETBE)	Ethanol		64-17-5	8260B	ND	100	33		1
Methyl tertiary butyl ether (MTBE)	Ethylbenzene		100-41-4	8260B	0.61 J	1.0	0.33	ug/L	1
Naphthalene	Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.0	0.20	ug/L	1
Toluene	Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Toluene	Naphthalene		91-20-3	8260B	1.3	1.0	0.40	ug/L	1
Number N	tert-butyl alcohol (TBA)		75-65-0	8260B	ND	20	6.7	_	1
Surrogate Q % Recovery Limits	Toluene		108-88-3	8260B	7.8	1.0	0.33	ug/L	1
CAS Analytical Number Method Number Method Number Number Method Number Nu	Xylenes (total)		1330-20-7	8260B	24	1.0	0.33	_	1
1,2-Dichloroethane-d4	Surrogate		Run 1 Accept Recovery Limi	ance ts					
Toluene-d8	-								
Toluene-d8	., = =								
Run Prep Method 1 8011 Analytical Method 1 8011 Bolton Analysis Date Analyst Prep Date Batch 1 02/06/2015 1841 MEM 02/05/2015 0940 66985 CAS Analytical Number Method Result Q PQL MDL Units Rur 1,2-Dibromoethane (EDB) 106-93-4 8011 ND 0.019 0.019 ug/L 1 Run 1 Acceptance Surrogate Q % Recovery Limits 1,1,1,2-Tetrachloroethane 85 57-137 ICP-AES Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch	Toluene-d8								
Run Prep Method 1 8011 Analytical Method 1 8011 Bolton Analysis Date Analyst Prep Date Batch 1 02/06/2015 1841 MEM 02/05/2015 0940 66985 CAS Analytical Number Method Result Q PQL MDL Units Rur 1,2-Dibromoethane (EDB) 106-93-4 8011 ND 0.019 0.019 ug/L 1 Run 1 Acceptance Surrogate Q % Recovery Limits 1,1,1,2-Tetrachloroethane 85 57-137 ICP-AES Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch									
1 8011 8011 1 02/06/2015 1841 MEM 02/05/2015 0940 66985		ED	B & DBCP	by Microex	ktraction				
Parameter Number Method Result Q PQL MDL Units Rur 1,2-Dibromoethane (EDB) 106-93-4 8011 ND 0.019 0.019 ug/L 1 Surrogate Q % Recovery Limits 1,1,1,2-Tetrachloroethane 85 57-137 ICP-AES Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch									
1,2-Dibromoethane (EDB) 106-93-4 8011 ND 0.019 0.019 ug/L 1 Run 1 Acceptance Q Recovery Limits 1,1,1,2-Tetrachloroethane 85 57-137 ICP-AES Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch			CAS	Analytical					
Surrogate Q % Recovery Limits 1,1,1,2-Tetrachloroethane 85 57-137 ICP-AES Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch									
Surrogate Q % Recovery Limits 1,1,1,2-Tetrachloroethane 85 57-137 ICP-AES Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch	1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.019	0.019	ug/L	1
ICP-AES Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch	Surrogate								
Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch	1,1,1,2-Tetrachloroethane		85 57-1	37					
Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch			IC	P-AFS					
1 2006A 6010C 1 02/06/2014 0214 CDF 02/06/2014 1126 6/002			Dilution Analys	sis Date Analy					
			CAS	Analytical					_

PQL = Practical quantitation limit

Parameter

Lead

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

Method

6010C

Number 7439-92-1

Result

ND

Q

H = Out of holding time

MDL

0.0021

PQL

0.010

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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Units

mg/L

Run

Level 1 Report v2.1

Shealy Environmental Services, Inc.

Client: Terry Environmental Services, Inc.

Description: 02314-DW2 DUP Date Sampled:02/02/2015 1848 Date Received: 02/04/2015

Laboratory ID: QB04023-010

Matrix: Aqueous

	Volatil	le Organic Comp	ounds by GC/MS	
Run Prep Method	Analytical Method	Dilution Analysis Date	Analyst Prep Date	

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	Run 1 Accepta Q % Recovery Limit						
1,2-Dichloroethane-d4	96 70-13	30					
Bromofluorobenzene	102 70-13	30					
Toluene-d8	103 70-13	30					

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011	,	,	st Prep D 1 02/05/20	Date Ba 015 0940 669	tch 985		
Parameter		CAS Number	Analytical Method	Result	Q PQ	L MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.02	0.020	ug/L	1
Surrogate		Run 1 Accepta lecovery Limit						
1,1,1,2-Tetrachloroethane		85 57-1	37					

ICP-AES

Run P	rep Method 3005A	Analytical Method 6010C		,	st Prep 02/05/2		Batch 6 67002			
			CAS	Analytical						
Param	eter		Number	Method	Result	Q	PQL	MDL	Units	Run
L pad			7//30-02-1	6010C	0.012	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.010	0.0021	ma/l	1

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 N = Recovery is out of criteria

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

Client: Terry Environmental Services, Inc.

Description: 02314-FB

Date Sampled:02/02/2015 1550 Date Received: 02/04/2015

Laboratory ID: QB04023-011 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Method Dilution Analysis Date Analysis Prep Date

Run Prep Method	Analytical Method	Dilution A	Analysis D	ate Analy	yst Prep	Date	Batch			
1 5030B	8260B	1 0	2/09/2015	2223 PMN	И2		67341			
		C.	AS A	nalytical						
Parameter		Numb	oer	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85	5-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05	5-8	8260B	ND		10	0.20	ug/L	1
Benzene		71-43	3-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)		762-75	5-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107-06	6-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)		108-20	0-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95	5-3	8260B	ND		20	1.0	ug/L	1
Ethanol		64-17	7-5	8260B	ND		100	33	ug/L	1
Ethylbenzene		100-41	1-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92	2-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04	4-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene		91-20	0-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65	5-0	8260B	ND		20	6.7	ug/L	1
Toluene		108-88	3-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)		1330-20	0-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q %	Run 1 A Recovery	cceptance Limits	•						
1,2-Dichloroethane-d4		90	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		96	70-130							

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011		is Date Analys 015 1922 MEM	st Prep Date 1 02/05/2015				
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		Run 1 Accepta Recovery Limit						
1,1,1,2-Tetrachloroethane		84 57-13	37					

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

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.

Client: Terry Environmental Services, Inc.

Description: 02314-TB Date Sampled:02/02/2015 Date Received: 02/04/2015 Laboratory ID: QB04023-012

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		lysis Date Analy 9/2015 2246 PMN		Batch 67341			
Parameter		CAS Number	Analytical	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	Method 8260B	ND	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0.20	ug/L ug/L	1
Benzene		71-43-2	8260B	ND	1.0	0.20	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			ptance mits					
1,2-Dichloroethane-d4		90 70)-130					
Bromofluorobenzene		98 70)-130					
Toluene-d8		97 70)-130					

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Level 1 Report v2.1

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ67278-001 Batch: 67278

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/09/2015 1038
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	02/09/2015 1038
Benzene	ND		1	1.0	0.13	ug/L	02/09/2015 1038
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	02/09/2015 1038
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/09/2015 1038
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	02/09/2015 1038
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	02/09/2015 1038
Ethanol	ND		1	100	33	ug/L	02/09/2015 1038
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/09/2015 1038
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	02/09/2015 1038
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/09/2015 1038
Naphthalene	ND		1	1.0	0.40	ug/L	02/09/2015 1038
tert-butyl alcohol (TBA)	ND		1	20	6.7	ug/L	02/09/2015 1038
Toluene	ND		1	1.0	0.33	ug/L	02/09/2015 1038
Xylenes (total)	ND		1	1.0	0.33	ug/L	02/09/2015 1038
Surrogate	Q % Rec		ceptance Limit				
Bromofluorobenzene	98		70-130				
1,2-Dichloroethane-d4	93		70-130				
Toluene-d8	100		70-130				

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67278-002

Batch: 67278

Matrix: Aqueous 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	02/09/2015 0951
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	02/09/2015 0951
Benzene	50	48		1	96	70-130	02/09/2015 0951
tert-Butyl formate (TBF)	250	230		1	93	70-130	02/09/2015 0951
1,2-Dichloroethane	50	47		1	95	70-130	02/09/2015 0951
Diisopropyl ether (IPE)	50	50		1	101	70-130	02/09/2015 0951
3,3-Dimethyl-1-butanol	1000	930		1	93	70-130	02/09/2015 0951
Ethanol	5000	4800		1	95	60-140	02/09/2015 0951
Ethylbenzene	50	47		1	93	70-130	02/09/2015 0951
Ethyl-tert-butyl ether (ETBE)	50	50		1	101	70-130	02/09/2015 0951
Methyl tertiary butyl ether (MTBE)	50	51		1	101	70-130	02/09/2015 0951

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"

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67278-002 Batch: 67278

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	47	1	94	70-130	02/09/2015 0951
tert-butyl alcohol (TBA)	1000	940	1	94	70-130	02/09/2015 0951
Toluene	50	48	1	96	70-130	02/09/2015 0951
Xylenes (total)	100	94	1	94	70-130	02/09/2015 0951
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	100	70-130				
1,2-Dichloroethane-d4	94	70-130				
Toluene-d8	101	70-130				

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ67341-001 Batch: 67341 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	Р	QL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	2	0	6.7	ug/L	02/09/2015 2134
tert-Amyl methyl ether (TAME)	ND		1	1	0	0.20	ug/L	02/09/2015 2134
Benzene	ND		1	1	.0	0.13	ug/L	02/09/2015 2134
tert-Butyl formate (TBF)	ND		1	5	.0	1.0	ug/L	02/09/2015 2134
1,2-Dichloroethane	ND		1	1	.0	0.15	ug/L	02/09/2015 2134
Diisopropyl ether (IPE)	ND		1	1	.0	0.40	ug/L	02/09/2015 2134
3,3-Dimethyl-1-butanol	ND		1	2	:0	1.0	ug/L	02/09/2015 2134
Ethanol	ND		1	1	00	33	ug/L	02/09/2015 2134
Ethylbenzene	ND		1	1	.0	0.33	ug/L	02/09/2015 2134
Ethyl-tert-butyl ether (ETBE)	ND		1	1	.0	0.20	ug/L	02/09/2015 2134
Methyl tertiary butyl ether (MTBE)	ND		1	1	.0	0.40	ug/L	02/09/2015 2134
Naphthalene	ND		1	1	.0	0.40	ug/L	02/09/2015 2134
tert-butyl alcohol (TBA)	ND		1	2	0	6.7	ug/L	02/09/2015 2134
Toluene	ND		1	1	.0	0.33	ug/L	02/09/2015 2134
Xylenes (total)	ND		1	1	.0	0.33	ug/L	02/09/2015 2134
Surrogate	Q % Rec	Ad	cceptance Limit					
Bromofluorobenzene	98		70-130					
1,2-Dichloroethane-d4	90		70-130					
Toluene-d8	98		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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67341-002 Batch: 67341

Matrix: Aqueous Prep Method: 5030B

A I - +! I M - +I I - 0000D			0,011
Analytical Method: 8260B	Analytical	Method:	8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	820	1	82	70-130	02/09/2015 2033
tert-Amyl methyl ether (TAME)	50	46	1	91	70-130	02/09/2015 2033
	50	46	1	92	70-130	02/09/2015 2033
Benzene			1			
tert-Butyl formate (TBF)	250	220		88	70-130	02/09/2015 2033
1,2-Dichloroethane	50	45	1	89	70-130	02/09/2015 2033
Diisopropyl ether (IPE)	50	47	1	94	70-130	02/09/2015 2033
3,3-Dimethyl-1-butanol	1000	840	1	84	70-130	02/09/2015 2033
Ethanol	5000	4000	1	81	60-140	02/09/2015 2033
Ethylbenzene	50	46	1	91	70-130	02/09/2015 2033
Ethyl-tert-butyl ether (ETBE)	50	48	1	95	70-130	02/09/2015 2033
Methyl tertiary butyl ether (MTBE)	50	48	1	97	70-130	02/09/2015 2033
Naphthalene	50	48	1	97	70-130	02/09/2015 2033
tert-butyl alcohol (TBA)	1000	840	1	84	70-130	02/09/2015 2033
Toluene	50	46	1	92	70-130	02/09/2015 2033
Xylenes (total)	100	91	1	91	70-130	02/09/2015 2033
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	101	70-130				
1,2-Dichloroethane-d4	90	70-130				
Toluene-d8	98	70-130				

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ67342-001

Batch: 67342

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/09/2015 2121
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	02/09/2015 2121
Benzene	ND		1	1.0	0.13	ug/L	02/09/2015 2121
tert-Butyl formate (TBF)	ND		1	5.0	1.0	ug/L	02/09/2015 2121
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	02/09/2015 2121
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	02/09/2015 2121
3,3-Dimethyl-1-butanol	ND		1	20	1.0	ug/L	02/09/2015 2121
Ethanol	ND		1	100	33	ug/L	02/09/2015 2121
Ethylbenzene	ND		1	1.0	0.33	ug/L	02/09/2015 2121
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	02/09/2015 2121
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	02/09/2015 2121

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"

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ67342-001 Batch: 67342

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil PQL	MDL	Units	Analysis Date
Naphthalene	ND		1 1.0	0.40	ug/L	02/09/2015 2121
tert-butyl alcohol (TBA)	ND		1 20	6.7	ug/L	02/09/2015 2121
Toluene	ND		1 1.0	0.33	ug/L	02/09/2015 2121
Xylenes (total)	ND		1 1.0	0.33	ug/L	02/09/2015 2121
Surrogate	Q % Rec	Accept Lim				
Bromofluorobenzene	103	70-1	30			
1,2-Dichloroethane-d4	97	70-1	30			
Toluene-d8	104	70-1	30			

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67342-002

Batch: 67342

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

	Spike Amount	Result			% Rec	
Parameter	(ug/L)	(ug/L) Q	Dil	% Rec	Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100	1	112	70-130	02/09/2015 2021
tert-Amyl methyl ether (TAME)	50	48	1	96	70-130	02/09/2015 2021
Benzene	50	53	1	106	70-130	02/09/2015 2021
tert-Butyl formate (TBF)	250	260	1	106	70-130	02/09/2015 2021
1,2-Dichloroethane	50	51	1	103	70-130	02/09/2015 2021
Diisopropyl ether (IPE)	50	54	1	108	70-130	02/09/2015 2021
3,3-Dimethyl-1-butanol	1000	980	1	98	70-130	02/09/2015 2021
Ethanol	5000	5500	1	111	60-140	02/09/2015 2021
Ethylbenzene	50	49	1	98	70-130	02/09/2015 2021
Ethyl-tert-butyl ether (ETBE)	50	54	1	107	70-130	02/09/2015 2021
Methyl tertiary butyl ether (MTBE)	50	53	1	105	70-130	02/09/2015 2021
Naphthalene	50	51	1	101	70-130	02/09/2015 2021
tert-butyl alcohol (TBA)	1000	1100	1	112	70-130	02/09/2015 2021
Toluene	50	52	1	105	70-130	02/09/2015 2021
Xylenes (total)	100	100	1	100	70-130	02/09/2015 2021
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	107	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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

EDB & DBCP by Microextraction - MB

Sample ID: QQ66985-001

Batch: 66985

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 02/05/2015 940

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.020	ug/L	02/06/2015 1423
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	89	57-137				

EDB & DBCP by Microextraction - LCS

Sample ID: QQ66985-002

Batch: 66985

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 02/05/2015 940

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	117	60-140	02/06/2015 1434
Surrogate	Q % Rec	Acceptan Limit	ice				
1 1 1 2-Tetrachloroethane	95	57-137	,				

EDB & DBCP by Microextraction - MB

Sample ID: QQ66987-001

Batch: 66987

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 02/05/2015 1445

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.020	ug/L	02/06/2015 1901
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	83	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"

EDB & DBCP by Microextraction - LCS

Sample ID: QQ66987-002

Batch: 66987 Analytical Method: 8011 Matrix: Aqueous Prep Method: 8011

Prep Date: 02/05/2015 1445

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	. Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.27	1	109	60-140	02/06/2015 1912
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	91	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"

ICP-AES - MB

Sample ID: QQ67002-001

Batch: 67002

Analytical Method: 6010C

Matrix: Aqueous Prep Method: 3005A

Prep Date: 02/05/2015 1136

CP-AES - LCS									
Sample ID: QQ67002-002 Batch: 67002 Prep Method: 3005A Prep Date: 02/05/2015 1136	Parameter	Result	Q	Dil		PQL	MDL	Units	Analysis Date
Sample ID: QQ67002-002 Satch: 67002 Prep Method: 3005A Prep Date: 02/05/2015 1136 Prep Method: 3005A Prep Date: 02/05/2015 1136 Prep Date: 02/05/20	Lead	ND		1	1	0.010	0.0021	mg/L	02/06/2015 0117
Batch: 67002			IC	CP-AES -	LCS				
Prep Date: 02/05/2015 1136 Prep Date: 02/05/2015 1136 Prep Date: 02/05/2015 1136 Prep Date: 02/05/2015 1136 Prep Date: 02/05/2015 1136 Prep Date: 02/05/2015 0136 Prep Date: 02/						•			
Spike Amount (mg/L)				Pre	•				
Amount (mg/L)	Analytical Method: 6010C				Prep Da	te: 02/05/2	2015 1136		
Lead	Parameter	Amount		0	Dil	0/.	Poc		Analysis Data
CP-AES - MS				<u> </u>					
Sample ID: QB04023-001MS Batch: 67002 Prep Method: 3005A	Lead	0.40	0.41		'	11	02	80-120	02/06/2015 0121
Batch: 67002			10	CP-AES	- MS				
Batch: 67002	Sample ID: QB04023-001MS				Matr	ix: Aqueo	us		
Sample				Pre	ep Metho	d: 3005A			
Amount (mg/L)	Analytical Method: 6010C				Prep Da	te: 02/05/2	2015 1136		
Parameter (mg/L) (mg/L) (mg/L) Q Dil % Rec Limit Analysis Date Lead 0.0067 0.40 0.39 1 97 75-125 02/06/2015 02: ICP-AES - MSD Sample ID: QB04023-001MD Matrix: Aqueous Prep Method: 3005A Prep Date: 02/05/2015 1136 Sample Amount (mg/L) Spike Amount (mg/L) % Rec % RPD Limit Limit Analysis Date Parameter % Rec % RPD Limit Limit Analysis Date		Sample	Spike						
Lead	Darameter				0	Dil	% Dos		Analysis Data
CP-AES - MSD Sample ID: Q804023-001MD Matrix: Aqueous Prep Method: 3005A Prep Method: 3005A Prep Date: 02/05/2015 1136 Sample Spike Amount Amount Result				<u> </u>					
Sample ID: QB04023-001MD Batch: 67002 Prep Method: 3005A Analytical Method: 6010C Prep Date: 02/05/2015 1136 Sample Spike Amount Amount Result % Rec % RPD Parameter Parameter Matrix: Aqueous Prep Date: 02/05/2015 1136 % Rec % RPD Parameter % Rec % RPD Limit Limit Analysis Date	Lead	0.0007	0.40	0.55		•	37	75-125	02/00/2013 0223
Batch: 67002			IC	P-AES -	MSD				
Batch: 67002 Prep Method: 3005A Analytical Method: 6010C Prep Date: 02/05/2015 1136 Sample Amount Parameter Spike Amount (mg/L) Result (mg/L) % Rec % RPD (mg/L) % Rec % RPD (mg/L) Analysis Date	Sample ID: QB04023-001MD)			Matr	ix: Aqueo	us		
Sample Spike Amount Amount Result % Rec % RPD Parameter (mg/L) (mg/L) Q Dil % Rec % RPD Limit Limit Analysis Dat				Pre	ep Metho	d: 3005A			
Amount Amount Result % Rec % RPD Parameter (mg/L) (mg/L) Q Dil % Rec % RPD Limit Limit Analysis Da	Analytical Method: 6010C				Prep Da	te: 02/05/2	2015 1136		
, , , , , , , , , , , , , , , , , , ,			•	Result				% Rec % RP	D
Lead 0.0067 0.40 0.39 1 96 0.12 75-125 20 02/06/2015 02	Parameter	(mg/L)	(mg/L)	(mg/L)	Q Dil	% Rec	% RPD	Limit Limi	t Analysis Date
	Lead	0.0067	0.40	0.39	1	96	0.12	75-125 20	02/06/2015 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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

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Chain of Custody Record

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 45247

SHEALY ENVIRONMENTAL SERVICES, INC.

Address D. D. P.	an tal	Report to Con Ti Sempler's Sig	m	1	le#	len		,				13	-8	13-	- 8Z					Ouole No.
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(Containers for each sample may be combined on one line.)	1.1		0 5	Sold W	3 !	NOSON	\$	7	AUDE AG	ò		-	-			_		_		Remarks / Cooler I.D.
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2314-DW3		1612				Т	П	T			T	П	T							
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SHEALY

Chain of Custody Record

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 45248

SHEALY ENVIRONMENTAL SERVICES, INC.

Address P. O. Box ZS	iental	Report to 6	T	in		M	еЩ	len					843	5-8	13.	-8	200	7	Ouote No.
DO Box 75	5	Sampler's	Signi	ature		•			11		A	nanysi	s (Altach)	list if moi	re space i	is need	ed)		Page Zot Z
Summerville SC Mindsor Mart	29484	Printegral	Ino	~	n	~	y	1	lh	М	ath, work	XXEH	SQ.						QB04023
Project Na 7 171, 9 14	P.O. No.		and Market	м	atrix		by	No at C Present	andah vatha	ни Турп	TAKE.	3	M						
Sample ID / Description (Containers to: each sample may be contined on one line.)	Date	Time	S-CANNES	Advens	April	Channe	70834	WAG.	-	TOTAL KA	- STE	75							Remarks / Cooler I.D.
12314-FB	2-2/5	1550	6	X	Ц			(3	3						
2314-713	1		6	X	Ц	1		_ 3	-	Ш		7	1	\perp				1	
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Furn Around Time Required (Prier tab approval require SSStandard	d for expedited TAT	Sample Disp		C iko	osal bi					dentifi		1 Skir	n i mitant	□ Poise	n Elite	known	QC Req	uveme	ents (Specify)
Reinquished by Jummy	Ku	Date: 2/4	115	Tin	_			neVen									Date		Time
2. Relinquished by	/	Date 1		Tirt	_	-	2. Ré	celvac	by								Date		Time
3. Relinquished by Date		Date		Tia	6		3. Received by									Date		Time	
4. Relinquished by		Date		Tire	up.	1	44	16/210	ry rec	plyed I	»())	200		Onto/#	115	Time 1054 1100
Note: All samples are retain unless other arra			ceip	ť		1		ived o		Circle)	(Ves)	No	loe Pa	nt l	Receipt	Terna	19	·c	templant

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: _	Terry	- Enu	Cooler Inspected by/date: CMT / 214115 Lot #: 6304023
Means	of receip	t: SE	SI Client UPS FedEx Airborne Exp Other
Yes [No Z	7	Were custody seals present on the cooler?
Yes 🗌] No [NA [
Cooler	ID/Origin	nal tempe	rature upon receipt/Derived (corrected) temperature upon receipt:
	2.0 /1.		
			Blank Against Bottles IR Gun ID: #4 IR Gun Correction Factor: D. 1 °C
	of coola	nt: 🗗	Wet Ice Blue Ice Dry Ice None
Yes 🗌	No 🗆	NA 🗗	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes 🔲	No 🗌	NA 🗹	4. Is the commercial courier's packing slip attached to this form?
Yes 📝	No 🗌		5. Were proper custody procedures (relinquished/received) followed?
Yes 🗌	No 🗌	NA 🗗	5a Were samples relinquished by client to commercial courier?
Yes 🖊	No 🗌		6. Were sample IDs listed on the COC?
Yes 🔼			7. Were sample IDs listed on all sample containers?
res 📝	No 🗆		8. Was collection date & time listed on the COC?
res 🗗	No 🗌		9. Was collection date & time listed on all sample containers?
Zes 📝	No 🗆		10. Did all container label information (ID, date, time) agree with the COC?
es 🗾	No 🗌		11. Were tests to be performed listed on the COC?
es 🗗	No 🗌	500	12. Did all samples arrive in the proper containers for each test?
es 📝	No 🗆		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
es 🗆	No 🗌		14. Was adequate sample volume available?
es 🗷	No	टला थेपार	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
res 🔲	No 🖈		16. Were any samples containers missing?
es 🔲	No 🖸		17. Were there any excess samples not listed on COC?
cs 🔲	No 🖸	NA Julia	18. Were bubbles present >"pea-size" (4"or 6mm in diameter) in any VOA vials?
cs 🗷	No 🗆	NA 🖪	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
es 🔲	No 🗆	NA 🗗	20. Were all cyanide and/or sulfide samples received at a pH >12?
es 🗌	No 🗆	NA 🗹	 Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
es 🔲	No 🗌	NA 🗸	22. Were collection temperatures documented on the COC for NC samples?
es 🗌	No 🗌	NA 🗹	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc) correctly transcribed from the COC into the comment section in LIMS?
es 🔲	No 🖸		24. Was the quote number used taken from the container label?
	Preserva		fust be completed for any sample(s) incorrectly preserved or with headspace.)
ample(-11011 (1)	were received incorrectly preserved and were adjusted
		mnla raca	iving with (H ₂ SO ₄ ,HNO ₃ ,HCl,NaOH) using SR #
ample(mpre rece	were received with bubbles >6 mm in diameter.
ample(were received with TRC >0.2 mg/L (If #21 is No)
		ar Draine	
	_	er Project	Sample(s) pH verified to be > 2 by Date: were not received at a pH of <2 and were adjusted accordingly using SR#
ample(aliad but	
	labels app	лиеа ву:	LNM Verified by: CMT Date: 2415
omment	<u>(S</u> :		
			enneste.

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs/ SCDHEC 1903 Forms



Bureau of Water 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

PROMOTE PROTECT PROSPER	2000 D	uli Street, Columbia, 3C 23201-1700, (603) 630-4300					
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: LIMIN 25407					
Name: JACKSON	CHARLES	UMW-25497					
(last)	(first)	8. USE:					
Address: P.O. BOX 968		8. USE: Residential Public Supply Process					
		☐ Irrigation ☐ Air Conditioning ☐ Emergency					
City: CHERAW State: S	C Zip: 29520-0968	☐ Test Well ☐ Meniter-Well GRAB/H20 ☐ Replacement					
Telephone 140 l		9. WELL DEPTH (completed) Date Started: 07/14/14					
Telephone: Work:	Home:	4					
2. LOCATION OF WELL:	COUNTY: CHESTERFIELD	ft. Date Completed: 07/14/14					
Name: WINDSOR MART		10. CASING: ☑ Threaded ☑ Welded					
Street Address: 820 CHESTERFI		Diam.; 1.50" Height: Above Below					
City: CHERAW	Zip: ₂₉₅₆₀	Type: PVC Galvanized Surface					
		☑ Steel ☑ Other Weight lb./ft.					
Latitude: Longitu	de:	in. toft. depth Drive Shee?					
		in. to ft. depth					
	PUBLIC SYSTEM NUMBER:	11. SCREEN:					
02314-SB1		Type: STAINLESS STEEL Diam.: 1" Slot/Gauge: 0.004 Length: 4'					
4. ABANDONMENT: Yes	□ No	100					
Grouted Depth: from 19.0	ft. to SURFACE ft.	Sieve Analysis Yes (please enclose) No					
	*Thickness Depth to						
Formation Description	of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours					
•	Stratum Stratum	13. PUMPING LEVEL Below Land Surface.					
TEMPORARY WELL WAS		ft. after hrs. Pumping G.P.M.					
1111		Pumping Test: Yes (please enclose) No					
INSTALLED USING A DPT RIG		Yield:					
The state of the s		14. WATER QUALITY					
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No					
THE TOOKEDITION TO		Please enclose lab results.					
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack)					
ONO OND WILLIAM DAME DELY.		Installed from ft. to ft.					
LOCATION WAS ABANDONED		Effective size Uniformity Coefficient					
		16. WELL GROUTED? ☑ Yes ☐ No					
AFTER SAMPLING 07-14-14.		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other					
THE PERSONNEL PRODUCTION OF THE PERSON NAMED IN COLUMN PRODUCTION OF THE PERSO		Depth: From 19.0 ft. to SURFACE ft.					
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:ft					
		Type Amount:					
		18, PUMP: Date installed: Not installed					
		Mfr. Name: Model No.:					
		H.P. Volts Length of drop pipe ft. Capacity gpm					
		TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal					
		19. WELL DRILLER; JOHN S. KERR CERT. NO.: 2128					
		Address: (Print) Level: A B C D (circle one)					
		14 SAND DUNE LANE — — — —					
*Indicate Water Bearing Zones		ISLE OF PALMS, SC 29451 Telephone No. : 843, 873, 8700 Fay No. : 843, 873, 8745					
malicate Water Dearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under					
(Use a 2nd sheet if needed)		my direction and this report is true to the best of my knowledge and belief.					
5. REMARKS:		my direction and this report is true to the best of my knowledge and belief.					
ST - CONTRACT STANCE		\wedge					
		Signed:					
		Well Driller					
6. TYPE: ☐ Mud Rotary ☐ Jette	d 🔲 Bored	If D Level Driller, provide supervising driller's name:					
☐ Dug ☐ Air R							
	r - DPT	Kornety Beamel					
		1 Corroy Diana					



1. WELL OWNER INFORMATION:	7 DEDART MILLIOCO.					
	7. PERMIT NUMBER: UMW-25497					
Name: JACKSON CHARLES (last) (first)						
Address: P.O. BOX 968	8. USE:					
r.O. DOA 900	☐ Residential ☐ Public Supply ☐ Process					
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency					
	☐ Test Well ☐ Monitor-Well GRAB/H20 ☐ Replacement					
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 07/14/14					
2. LOCATION OF WELL: COUNTY: CHESTERFIELD						
Name: WINDSOR MART	10. CASING: ☑ Threaded ☑ Welded					
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 1.50" Height: Above Below					
City: CHERAW Zip: 29560	Type: PVC Galvanized Surface ft.					
27300	Steel Other Weight lb./ft.					
Latitude: Longitude:	——— in. to ————ft. depth					
	in. toft. depth					
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:					
02314-SB2	Type: STAINLESS STEEL Diam.: 1"					
4. ABANDONMENT: ☑ Yes ☐ No	Slot/Gauge; 0.004 Length; 41 Length; 41 Set Between; 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS					
	Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS					
Grouted Depth: from 20.0 ft. to SURFACE ft.	Ti. and ii. USE SECOND SHEE! Sieve Analysis □ Yes (please enclose) ☑ No					
*Thickness Depth to						
Formation Description of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours					
Stratum Stratum	13, PUMPING LEVEL Below Land Surface.					
TEMPORARY WELL WAS	ft. after hrs. Pumping G.P.M. Pumping Test: Yes (please enclose) No					
	Yield:					
INSTALLED USING A DPT RIG						
	14. WATER QUALITY Chamber Application Filters Filter Filters					
AND A SCREEN POINT 16	Chemical Analysis 🖸 Yes 🔲 No Bacterial Analysis 🗍 Yes 🔲 No					
	Please enclose lab results.					
GROUNDWATER SAMPLER.	15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No					
	Installed fromft. toft.					
LOCATION WAS ABANDONED	Effective size Uniformity Coefficient					
	16. WELL GROUTED? [7] Yes 🔲 No					
AFTER SAMPLING 07-14-14.	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other					
	Depth: From 20.0 ft. to SURFACE ft.					
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction					
	Туре					
	Well Disinfected ☐ Yes ☑ No Type: Amount:					
	18. PUMP: Date installed: Not installed □					
	Mfr. Name: Model No.:					
	H.P Volts Length of drop pipe ft. Capacity gpm					
	TYPE: Submersible Jet (shallow) Turbine					
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal					
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128					
	Address: (Print) Level: A B C D (circle one)					
	14 SAND DUNE LANE					
*Indicate Water Bearing Zones	ISLE OF PALMS, SC 29451 Telephone No.: 843-873-8200 Fax No.: 843-873-8765					
indicate viater bearing zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under					
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.					
5. REMARKS:	,					
	()) V alsolin					
	Signed: Date: 3/5//R					
	Well prijler					
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D Level Driller, provide supervising driller's name;					
☐ Dug ☐ Air Rotary ☐ Driven						
☐ Cable tool ☑ Other - DPT	Kandy Drand					



PROMOTE PROTECT PROSPER	
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: UMW-25497
Name: JACKSON CHARLES (last) (first)	01111 23 17 1
(last) (first) Address: P.O. BOX 968	8. USE:
F.O. DOX 908	☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Me niter Well GRAB/H20 ☐ Replacement
Telephone: Work: Home;	9. WELL DEPTH (completed) Date Started: 07/14/14
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	
Name: WINDSOR MART	10. CASING: ☑ Threaded 및 Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 1.50 [®] Height: Above Below ☐
City: CHERAW Zip: 29560	Type: D PVC D Galvanized Surfaceft.
	☑ Steel ☐ Other Weight lb./ft.
Latitude: Longitude:	———in. to ———ft. depth Drive Shore? ☐ Yes ☐ No ———in. to ———ft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
02314-SB3	Type: STAINLESS STEEL Diam.: 1" Slot/Gauge: 0.004 Length: 4'
4. ABANDONMENT:	Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
	ft. andft. USE SECOND SHEET
Grouted Depth: from 20.0 ft. to SURFACE ft.	Sieve Analysis ☐ Yes (please enclose) ☑ No
*Thickness Depth to	12. STATIC WATER LEVEL ft, below land surface after 24 hours
Formation Description of Bottom of Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M.
TEMPORARY WELL WAS	Pumping Test: ☐ Yes (please enclose) ☑ No
INSTALLED USING A DPT RIG	Yield:
NOTALLED OSING A DIT NO	14. WATER QUALITY
AND A SCREEN POINT 16	Chemical Analysis ☑ Yes □No Bacterial Analysis □ Yes □ No
	Please enclose lab results.
GROUNDWATER SAMPLER.	15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
	Installed fromft. toft.
LOCATION WAS ABANDONED	Effective size Uniformity Coefficient
A POTTEN CALL AND TAKE OF TAKE	16. WELL GROUTED? ☑ Yes 및 No ☑ Neat Cement 및 Bentonite ☐ Bentonite/Cement 및 Other
AFTER SAMPLING 07-14-14.	Depth: From 20.0 ft. to SURFACE ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft, direction
	Type
	Well Disinfected ☐ Yes ☐ No Type: Amount:
	18. PUMP: Date installed: Not installed
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipeft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	Jet (deep)
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DONE LANE
*Indicate Water Bearing Zones	ISLE OF PALMS, SC 29451 Telephone No.: 843-873-8200 Fax No.: 843-873-8765
	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	2
	Signed:
	Well Driller
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven	The Level Dillier, provide supervising ordinars and anne.
☐ Cable tool ☑ Other - DPT	Rowdy Brand



1. WELL OWNER INFORMATION:	7 PERMITNIMBER					
Name: JACKSON CHARLES	7. PERMIT NUMBER: UMW-25497					
(last) (first)	8. USE:					
Address: P.O. BOX 968	Residential Public Supply Process					
City: CHERAW State: SC Zip: 29520-096	Thrigation This Conditioning Themproper					
5119. CHERAW State. 3C 219. 29320-090.	☐ Test Well ☐ Meniter Well GRAB/H20 ☐ Replacement					
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 07/14/14					
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	20.0 ft. Date Completed: 07/14/14					
Name: WINDSOR MART	10. CASING: Threaded					
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 1.50" Height: Above Below					
City: CHERAW Zip: 29560	Type: PVC Galvanized Surface ft. Steel Other Weight b.fft.					
and the second s	☐ Steel ☐ Other Weight ☐ b./ft. ☐ in, to ☐ ft, depth ☐ Drive Sheef ☐ Yes ☐ No					
Latitude: Longitude:	in. toft. depth					
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBE	R: 11. SCREEN:					
02314-SB4	Type: STAINLESS STEEL Diam.: 1"					
4. ABANDONMENT: ☑ Yes ☐ No	Slot/Gauge: 0.004 Length: 4' Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS					
	ft. andft. USE SECOND SHEET					
Grouted Depth: from 20.0 ft. to SURFACE f	Sieve Analysis Yes (please enclose) No					
*Thickness Depth to	12. STATIC WATER LEVEL ft. below land surface after 24 hours					
Formation Description of Bottom of Stratum Stratum	f					
	ft, after hrs. Pumping G.P.M.					
TEMPORARY WELL WAS	Pumping Test: ☐ Yes (please enclose) ☑ No					
INSTALLED USING A DPT RIG	Yield:					
THO THE BODD CONTO INDICATE OF THE BODD CONTO IN	14. WATER QUALITY					
AND A SCREEN POINT 16	Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No					
	Please enclose lab results.					
GROUNDWATER SAMPLER.	15. ARTIFICIAL FILTER (filter pack) Yes No					
	Installed from ft. to ft. Effective size Uniformity Coefficient					
LOCATION WAS ABANDONED						
AFTER SAMPLING 07-14-14.	16. WELL GROUTED? ☑ Yes ☑ No ☑ Neat Cement ☑ Bentonite ☑ Bentonite/Cement ☑ Other					
AFTER SAMIPLING 07-14-14.	Depth: From 20.0 ft. to SURFACE ft.					
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction					
	Туре					
	Well Disinfected ☐ Yes ☑ No Type: Amount:					
	18. PUMP: Date installed: Not installed					
	Mfr. Name: Model No.:					
	H.P. Volts Length of drop pipe ft. Capacity gpm					
	TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal					
	Address: (Print) 14 SAND DUNE LANE A B C D (circle one)					
	ISLE OF PALMS, SC 29451					
*índicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765					
(Use a 2nd sheet if needed)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under					
5. REMARKS:	my direction and this report is true to the best of my knowledge and belief.					
o. Kenaka						
	Signed: Jun 1 hur Date: 3/5/15					
	Signed: Well Driller Date: 5/7/0					
A TVDE. THE LOCAL TO THE CONTRACT OF THE CONTR						
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven	If D Level Driller, provide supervising driller's name:					
☐ Cable tool ☐ Other - DPT	Barrely Barrel					
	Kanely Brand					



PROMOTE PROTECT PROSPER	2000	7 Dail Offeet, Columbia, CC 29201-1700, (CC3) 630-4300
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: UMW-25497
Name: JACKSON	CHARLES	UMW-25497
(last)	(first)	8. USE:
Address: P.O. BOX 968		o. USE. ☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: S	C Zip: 29520-09	58
Telephone: Work;	Home:	9. WELL DEPTH (completed) Date Started: 07/14/14
2. LOCATION OF WELL:	COUNTY: CHESTERFIE	D 20.0 ft. Date Completed: 07/14/14
Name: WINDSOR MART		10. CASING: ☑ Threaded ☑ Weided
Street Address: 820 CHESTERFII	ELD HIGHWAY	Diam.: 1.50" Height: Above Below
City: CHERAW	Zip: ₂₉₅₆₀	Type: D PVC D Galvanized Surfaceft.
	27500	Steel Other Weight lb./ft.
Latitude: Longitud	de:	in. toft. depth Drive Shee?
•		in, toft, depth
3. PUBLIC SYSTEM NAME: P	UBLIC SYSTEM NUMB	ER: 11. SCREEN:
02314-SB5		Type: STAINLESS STEEL Diam.: 1"
4. ABANDONMENT: ☑ Yes [T N.	Slot/Gauge: 0.004 Length: 4'
4. ABANDONMENT: Yes [T INO	Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
20.0	e CONTRA OF	ft. andft. USE SECOND SHEET
Grouted Depth: from 20.0		City Canalysis 22 100 (placed disease) (2 110
Favoration Description	*Thickness Depth	12. STATIC WATER LEVEL It below land surface after 24 hours
Formation Description	of Bottom Stratum Stratu	
	Stratum Stratu	ft, after hrs. Pumping G.P.M.
TEMPORARY WELL WAS		Pumping Test: Yes (please enclose) No
		Yield:
INSTALLED USING A DPT RIG		
		14. WATER QUALITY
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
		Please enclose lab results.
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
		Installed from ft. to ft.
LOCATION WAS ABANDONED		Effective size Uniformity Coefficient
		16. WELL GROUTED? [7] Yes 🔲 No
AFTER SAMPLING 07-14-14.		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
		Depth: From 20.0 ft. to SURFACE ft.
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
		Type
		Well Disinfected ☐ Yes Ø No Type: Amount:
		18. PUMP: Date installed: Not installed Mr. Nome: Model No.
		Mfr. Name: Model No.: H.P. Volts Length of drop pipe ft. Capacity gpm
		H.P. Volts Length of drop pipe ft. Capacity gpm TYPE: □ Submersible □ Jet (shallow) □ Turbine
		☐ Jet (shallow) ☐ Torbine ☐ Jet (shallow) ☐ Torbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
		19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	····	Address: (Print) Level: A B C D (circle one)
		14 SAND DONE LANE — — — —
*Indicate Water Pooring Zanca		ISLE OF PALMS, SC 29451
*Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765 20, WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:		my direction and this report is true to the best of my knowledge and belief.
U. REIMARRO.		
		Signed: A // Date: 3/5//5
		Well Driller
6. TYPE: Mud Rotary Jetted	d 🔲 Bored	If D. L. and Dalle Country of a companion of the country of the co
□ Dug □ Air Ro	_	If D Level Drillel, provide supervising driller's name:
☐ Cable tool	•	Randy Brand
El Ottolo El Ottler	- DE I	KMMY DIMICA



PROJULE PROSPEK	
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: UMW-25497
Name: JACKSON CHARLES	O141 11 - 2377 /
(last) (first)	8. USE:
Address: P.O. BOX 968	☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency
CHEKAW Grate: 3C 7th: 23320-0308	☐ Test Well ☐ Monitor Well GRAB/H20 ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 07/14/14
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	
Name: WINDSOR MART	10. CASING: 17 Threaded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 1.50" Height: Above Below
City: CHERAW Zip: 29560	Type: PVC Galvanized Surface ft.
City: CHERAW Zip: 29560	Steel Other Weight ib./ft.
Latitude; Longitude;	in, to ft. depth Drive Shee? Yes No
Longitude.	in, toft, depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
02314-SB6	Type: STAINLESS STEEL Diam.: 1"
	Slot/Gauge: 0.004 Length: 4'
4. ABANDONMENT: Yes No	Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
Constant Boothy Co., 20.0	ft. and ft. USE SECOND SHEET
Grouted Depth: from 20.0 ft. to SURFACE ft.	Sieve Analysis 🔲 Yes (please enclose) 🗹 No
*Thickness Depth to	12. STATIC WATER LEVEL ft. below land surface after 24 hours
Formation Description of Bottom of Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M.
TEMPORARY WELL WAS	Pumping Test: ☐ Yes (please enclose) ☑ No
NIGOTA V VIDA VIGINA O LA PARTA Yield:	
INSTALLED USING A DPT RIG	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
AND A SCREEN POINT 16	Please enclose lab results.
GROUNDWATER SAMPLER.	15. ARTIFICIAL FILTER (filter pack)
V C C L TYCO V W L C L TY L C L C L C L C L C L C L C L C L C L	Installed fromft.
LOCATION WAS ABANDONED	Effective sizeUniformity Coefficient
	16. WELL GROUTED? ☑ Yes ☑ No
AFTER SAMPLING 07-14-14,	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ☐
	Depth: From 20.0 ft. to SURFACE ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type
	Well Disinfected ☐ Yes ☑ No Type: Amount:
	18. PUMP: Date installed: Not installed
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE
	ISLE OF PALMS, SC 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Hear a 2nd about if man = 2-2)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	
	\bigcap
	Signed:
	Signed: Date: Date: Date:
R TVDE: T Mud Poton.	
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Driven ☐ Driven	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other - DPT	
The capie you The Auter - DA (Kanay Dearle



PROMOTE PROTECT PROSPER		2000 00	an Oricet, Ocidinala, 30 23201-1700, (000) 030-4300					
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-25497					
Name: JACKSON	CHAF		OW W -23497					
(last)	(fire	st)	8. USE:					
Address: P.O. BOX 968			☐ Residential ☐ Public Supply ☐ Process					
City: CHERAW State: S	C Zip: 29	9520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well GRAB/H20 ☐ Replacement					
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 07/14/14					
2. LOCATION OF WELL:	COUNTY: CHES	TERFIELD	ft. Date Completed: 07/14/14					
Name: WINDSOR MART			10. CASING: Threaded Welded					
Street Address: 820 CHESTERF	ELD HIGHWAY	Y	Diam.; 1.50" Height: Above Below					
City: CHERAW	Zip: 29560	•	Type: 🛘 PVC 🗖 Galvanized Surface					
	2/300		Steel Other Weight lb./ft.					
Latitude: Longitu	de:		in. to ft, depth Drive Shee? Yes No					
			in, toft, depth					
3. PUBLIC SYSTEM NAME: 02314-SB7	PUBLIC SYSTE	M NUMBER:	11. SCREEN: Type: STAINLESS STEEL Diam.: 1"					
4. ABANDONMENT: Yes	□ No		Slot/Gauge: 0.004 Length: 4'					
Grouted Depth: from 20.0	ft. to SURFAC	<u>CEft.</u>	ft, andft. USE SECOND SHEET Sieve Analysis Yes (please enclose) No					
	*Thickness	Depth to	12. STATIC WATER LEVEL ft. below land surface after 24 hours					
Formation Description	of	Bottom of						
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.					
TEMPORARY WELL WAS			ft. after hrs. Pumping G.P.M. Pumping Test: ☐ Yes (please enclose) ☑ No					
			Yield:					
INSTALLED USING A DPT RIG			14. WATER QUALITY					
			Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No					
AND A SCREEN POINT 16			Please enclose lab results.					
OD OLD INVILLED DO CALLED			15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No					
GROUNDWATER SAMPLER.			Installed from ft. to ft.					
LOCATION WAS ABANDONED			Effective size Uniformity Coefficient					
LOCATION WAS ABANDONED			16. WELL GROUTED? 🔀 Yes 🗖 No					
AFTER SAMPLING 07-14-14.			☑ Neat Cement ☑ Bentonite ☐ Bentonite/Cement ☐ Other					
			Depth: From 20.0 ft. to SURFACE ft.					
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction					
			Type					
			Well Disinfected ☐ Yes ☑ No Type: Amount:					
			18. PUMP: Date installed: Not installed □					
			Mfr. Name: Model No.:					
			H.PVoltsLength_of drop pipeft. Capacitygpm					
			TYPE: Submersible Jet (shallow) Turbine					
		·	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal					
			19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128					
			Address: (Print) Level: A B C D (circle one)					
			14 SAND DUNE LANE					
*Indicate Water Bearing Zones	-		ISLE OF PALMS, SC 29451 Telephone No. : 842 872 8700 Fox No. : 842 873 8765					
indicate water bearing Zories			Telephone No.: 843-873-8200 Fax No.: 843-873-8765 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under					
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.					
5. REMARKS:			,					
			Signed:					
			Signed: Date: 5/0//3					
			VVOII UTILIBIT/					
6. TYPE: Mud Rotary Jette	_	Sored	If D Level Driller, provide supervising driller's name:					
☐ Dug ☐ Air R☐ Cable tool ☐ Other	•)riven	$\rho + \rho + 1$					
M Other	- UM I		Kandy Drand					



PROMOTE PROTECT PROSPER	
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: UMW-25497
Name: JACKSON CHARLES (last) (first)	
Address: P.O. BOX 968	8. USE:
1.0. DOX 908	☐ Residential ☐ Public Supply ☐ Process ☐ A Countries ☐ Process
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitor Well GRAB/H20 ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 07/14/14
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 07/14/14
Name: WINDSOR MART	10. CASING: ☑ Threaded ☐ Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 1.50" Height: Above Below ☐
City: CHERAW Zip: 29560	Type: D PVC D Galvanized Surfaceft.
2,000	☑ Steel ☑ Other Weight lb./ft.
Latitude: Longitude:	in. to ft. depth Drive Shee? Yes No
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
02314-SB8	Type: STAINLESS STEEL Diam.: 1" Slot/Gauge: 0.004 Length: 4'
4. ABANDONMENT: ☐ Yes ☐ No	Slot/Gauge: 0.004 Length: 4 Length: 4 Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
	ft. andft. USE SECOND SHEET
Grouted Depth: from 20.0 ft. to SURFACE ft.	Sieve Analysis 🔲 Yes (please enclose) 🗹 No
*Thickness Depth to	12. STATIC WATER LEVEL ft. below land surface after 24 hours
Formation Description of Bottom of Stratum Stratum	13, PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M.
TEMPORARY WELL WAS	Pumping Test: 🗖 Yes (please enclose) 🗷 No
INSTALLED USING A DPT RIG	Yield:
MOTALLED OBING A DI A MO	14. WATER QUALITY
AND A SCREEN POINT 16	Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
GROUNDWATER SAMPLER.	15. ARTIFICIAL FILTER (filter pack)
	Installed from ft. to ft. Effective size Uniformity Coefficient
LOCATION WAS ABANDONED	
AFTER SAMPLING 07-14-14.	16. WELL GROUTED? ☑ Yes ☑ No ☑ Neat Cement ☑ Bentonite ☐ Bentonite/Cement ☑ Other
AT TER SAWITEING 07-14-14.	Depth: From 20.0 ft. to SURFACE ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Туре
	Well Disinfected ☐ Yes ☑ No Type: Amount:
	18. PUMP: Date installed: Not installed
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shaflow) Turbine
	- Jet (deep) □ Reciprocating □ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE ISLE OF PALMS, SC 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	
	()
	Signed:
	Well Driller
6. TYPE: Mud Rotary	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other - DPT	
= 0000 00. E 000 0DF1	Kanery Maria



PROMOTE PROTECT PROSPER	2000	Duli Street, Columbia, 3C 23201-1700, (003) 030-4300
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: AND GIVE OF LOS
Name: JACKSON	CHARLES	UMW-25497
(last)	(first)	8. USE:
Address: P.O. BOX 968		☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: S	C Zip: 29520-096	8
Telephone: Work:	Home:	9. WELL DEPTH (completed) Date Started: 07/14/14
2. LOCATION OF WELL:	COUNTY: CHESTERFIEL	D ft. Date Completed: 07/14/14
Name: WINDSOR MART		10. CASING: ☐ Threaded ☐ Welded
Street Address: 820 CHESTERFI	ELD HIGHWAY	Diam.: 1.50" Height: Above Below □
City: CHERAW	Zip: ₂₉₅₆₀	Type: PVC Galvanized Surface
	27300	☑ Steel ☐ Other Weight lb./ft.
Latitude: Longitu	de:	in, toft. depth Drive Shee?
· ·		in. to ft. depth
3. PUBLIC SYSTEM NAME:	PUBLIC SYSTEM NUMBE	R: 11. SCREEN:
02314-SB9		Type: STAINLESS STEEL Diam.: 1"
4 ADAMOONIEDIT POOL	—	Slot/Gauge: 0.004 Length: 41
4. ABANDONMENT: Yes	→ NO	Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	e . CUDEACE	ft. andft. USE SECOND SHEET
Grouted Depth: from 20.0	ft. to SURFACE	Ciole / maryoto Last 100 (piezoe emeleso) Es 110
Marian Paris Paris	*Thickness Depth t	I. Delow land surface after 24 hours
Formation Description	of Bottom Stratum Stratur	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Stratum Stratur	ft. after hrs. Pumping G.P.M.
TEMPORARY WELL WAS		Pumping Test: ☐ Yes (please enclose) ☐ No
		Yield:
INSTALLED USING A DPT RIG		
		14. WATER QUALITY Chaminal Application Filters Filters Restation Application Filters
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No Please enclose lab results.
		Please eliciose lab fesults.
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
		Installed from ft. to ft.
LOCATION WAS ABANDONED		Effective size Uniformity Coefficient
		16. WELL GROUTED? ☑ Yes 🗓 No
AFTER SAMPLING 07-14-14.		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
		Depth: From 20.0 ft. to SURFACE ft.
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
		Type
		Well Disinfected ☐ Yes ☑ No Type: Amount:
		18. PUMP: Date installed: Not installed
		Mfr. Name: Model No.:
		H.P. Volts Length of drop pipe ft. Capacity gpm
		TYPE: Submersible Jet (shallow) Turbine
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
		19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
		14 SAND DUNE LANE ISLE OF PALMS, SC 29451
*Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765
		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:		Should all the report to the best of the morneys and solion
or remarkation		
		Signed:
		Well Driller
6. TYPE: ☐ Mud Rotary ☐ Jette	d ☐ Bored	If D Level Driller, provide supervising driller's name:
□ Dug □ Air R	_	a D Level Daliel, provide authoratoling daliel o transe.
	r - DPT	Randy Bound
		Manyeus Dianner



PROMOTE PROTECT PROSPER					
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-25497		
Name: JACKSON CHARLES (last) (first)			OM W-25477		
Address: P.O. BOX 968	(IIISt)		8. USE:		
City: CHERAW State: S	C Zip: 29	9520-0968	☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency		
		00	☐ Test Well ☐ Monitor-Well GRAB/H20 ☐ Replacement		
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 07/14/14		
2. LOCATION OF WELL:	COUNTY: CHES	TERFIELD			
Name: WINDSOR MART			10. CASING: ☑ Threaded ☐ Welded Diam.: 1.50" Height: Above ☐ Below ☐		
Street Address: 820 CHESTERFI		ď	Diam.: ☐ SU" Height: Above Below ☐ ft.		
City: CHERAW	Zip: ₂₉₅₆₀		ype: ☐ FVC ☐ Galvanized Surface		
Latitude: Longitu	de:		in. toft. depth		
3. PUBLIC SYSTEM NAME: 02314-SB10	PUBLIC SYSTE	M NUMBER:	11. SCREEN: Type: STAINLESS STEEL Diam.: 1"		
4. ABANDONMENT:	T No.		Slot/Gauge: 0.004 Length: 4'		
			Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS ft. and ft. USE SECOND SHEET		
Grouted Depth: from 20.0	ft. to SURFAC	CE ft.	Sieve Analysis 🔲 Yes (please enclose) 🛽 No		
Formation Description	*Thickness	Depth to	12. STATIC WATER LEVEL ft. below land surface after 24 hours		
i osmation Description	of Stratum	Bottom of Stratum	13. PUMPING LEVEL Below Land Surface.		
TEMPORARY WELL WAS			ft. after hrs. Pumping G.P.M.		
			Pumping Test: 🔲 Yes (please enclose) 🗹 No		
INSTALLED USING A DPT RIG			Yield: 14. WATER QUALITY		
AND A SCREEN POINT 16			Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No Please enclose lab results.		
GROUNDWATER SAMPLER.			15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No		
		· · · · · · · · · · · · · · · · · · ·	Installed from ft. to ft.		
LOCATION WAS ABANDONED			Effective size Uniformity Coefficient		
			16. WELL GROUTED? 🛛 Yes 🚨 No		
AFTER SAMPLING 07-14-14.			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other		
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft, direction		
			Type Well Disinfected ☑ Yes ❷ No Type: Amount:		
			18. PUMP: Date installed: Not installed		
			Mfr. Name: Model No.:		
			H.P Volts Length of drop-pipe ft. Capacity gpm		
			TYPE: Submersible Jet (shallow) Turbine		
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
			19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128		
	····		Address: (Print) Level: A B C D (circle one)		
			14 SAND DUNE LANE ISLE OF PALMS, SC 29451		
*Indicate Water Bearing Zones			Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
•			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under		
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.		
5. REMARKS:					
			$\bigcap \qquad \qquad = 1.7$		
			Signed:		
			vven Driner/		
5. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Driven ☐ Driven			If D Level Driller, provide supervising driller's name:		
	otary ⊔. `-DPT	ліуен	Parala Ra		
	D1 1		10 may 1) compl		



PROMOTE PROTECT PROSPER	2000 D			
1. WELL OWNER INFORMATION:		7. PERMITNUMBER: UMW-25497		
Name: JACKSON CHARLES		UM W ~23497		
(last) (first)		8. USE:		
Address: P.O. BOX 968		☐ Residential ☐ Public Supply ☐ Process		
City: CHERAW State: S	SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency		
		☐ Test Well ☐ Monitor Well GRAB/H20 ☐ Replacement		
Telephone: Work:	Home:	9. WELL DEPTH (completed) Date Started: 07/16/14		
2. LOCATION OF WELL:	COUNTY: CHESTERFIELD	ft. Date Completed: 07/16/14		
Name: WINDSOR MART		10. CASING: ☑ Threaded 및 Welded		
Street Address: 820 CHESTERFI		Diam.: 1.50" Height: Above Below		
City: CHERAW	Zip: ₂₉₅₆₀	Type: D PVC D Galvanized Surfaceft.		
1 -474		☐ Steel ☐ Other Weight ☐ Ib./ft. ☐ Ib./ft. ☐ Ib./ft. ☐ Weight ☐ Yes ☐ No		
Latitude: Longitu	de:	in. toft. depth		
3. PUBLIC SYSTEM NAME: F	PUBLIC SYSTEM NUMBER			
02314-SB11	ODEIO 3131EM NOMBEN			
4. ABANDONMENT: ☑ Yes		Type: STAINLESS STEEL Diam.: 1" Slot/Gauge: 0.004 Length: 4'		
4. ADAIDONNEINI. EI 165 (T 140	Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS		
Grouted Depth: from 20.0	ft, to SURFACE ft.	ft, andft. USE SECOND SHEET		
	*Thickness Depth to	Crove Analysis El 165 (prease dinose) El 16		
Formation Description	of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours		
	Stratum Stratum	13. PUMPING LEVEL Below Land Surface.		
TEMPORARY WELL WAS		ft. afterhrs. PumpingG.P.M. Pumping Test: ☐ Yes (please enclose) ☑ No		
		Yield:		
INSTALLED USING A DPT RIG		14. WATER QUALITY		
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No		
AND A SCREEN FOINT 18		Please enclose lab results.		
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack) 🔲 Yes 🖾 No		
		Installed from ft. to ft.		
LOCATION WAS ABANDONED		Effective size Uniformity Coefficient		
	_	_ 16, WELL GROUTED? ☑ Yes 🗓 No		
AFTER SAMPLING 07-16-14.		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other		
		Depth: From 20.0 ft. to SURFACE ft.		
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction		
		Type		
		18. PUMP: Date installed: Not installed		
		Mfr. Name: Model No.: H.P Volts Length of drop-pipeft. Capacity gpm		
		TYPE: Submersible Jet (shallow) Turbine		
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
		19. WELL DRILLER; JOHN S. KERR CERT. NO.: 2128		
		Address: (Print) Level: A B C D (circle one)		
		14 SAND DUNE LANE		
All distances and the second		ISLE OF PALMS, SC 29451		
*Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
(Use a 2nd sheet if needed)		 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:				
		Signed:		
		Signed: Date: 75/7		
6. TYPE: ☐ Mud Rotary ☐ Jetter	d 🗓 Bored	1 ,,,		
D Dug Air Rotary D Driven		If D Level Driller, provide supervising driller's name:		
☐ Cable tool		Randy Brand		
		I WYWY LIWWY		



PROMOTE PROTECT PROSPER	2000 B	dii Street, Columbia, 30 2920 1-1700; (803) 898-4300		
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: TIMESTA OF 407		
Name: JACKSON CHARLES		UMW-25497		
(last) (first)		8. USE;		
Address: P.O. BOX 968		☐ Residential ☐ Public Supply ☐ Process		
	_	☐ Irrigation ☐ Air Conditioning ☐ Emergency		
City: CHERAW State: S	C Zip: 29520-0968	☐ Test Well ☐ Monitor Well GRAB/H20 ☐ Replacement		
Walantana a 1845 d				
Telephone: Work:	Home:	<u>-</u>		
2. LOCATION OF WELL:	COUNTY: CHESTERFIELD			
Name: WINDSOR MART		10. CASING: ☑ Threaded 및 Welded		
Street Address: 820 CHESTERFI		Diam.: 1.50" Height: Above Below		
City: CHERAW	Zip: ₂₉₅₆₀	Type: D PVC D Galvanized Surface		
		Steel Other Weight lb./ft.		
Latitude: Longitu	de:	in, toft. depth Drive Shee?		
		in. to ft. depth		
	PUBLIC SYSTEM NUMBER			
02314-SB12		Type: STAINLESS STEEL Diam.: 1"		
4. ABANDONMENT: Yes	□ No	Slot/Gauge: 0.004 Length: 4' Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS		
		• · · · · · · · · · · · · · · · · · · ·		
Grouted Depth: from 20.0	ft. to SURFACE ft.	ft. and ft. USE SECOND SHEET		
	*Thickness Depth to	Sieve Analysis Yes (please enclose) No		
Formation Description	of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours		
	Stratum Stratum	13. PUMPING LEVEL Below Land Surface.		
TEMPORARY WELL WAS		ft. after hrs. PumpingG.P.M.		
		Pumping Test: 🛘 Yes (please enclose) 🖾 No		
INSTALLED USING A DPT RIG		Yield:		
		14. WATER QUALITY		
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No		
		Please enclose lab results.		
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No		
		Installed fromft. toft.		
LOCATION WAS ABANDONED		Effective size Uniformity Coefficient		
		16. WELL GROUTED? [7] Yes 🗖 No		
AFTER SAMPLING 07-16-14.		☑ Neat Cement ☑ Bentonite ☐ Bentonite/Cement ☐ Other		
		Depth: From 20.0 ft. to SURFACE ft.		
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction		
		Type		
		Well Disinfected ☐ Yes ☑ No Type; Amount:		
		18. PUMP: Date installed: Not installed		
		Mfr. Name: Model No.: H.P Volts Length of drop pipe ft. Capacity gpm		
		H.P Volts Length of drop-pipe ft. Capacity gpm TYPE:		
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
		19. WELL DRILLER; JOHN S. KERR CERT. NO.: 2128		
		14 SAND DUNE LANE ISLE OF PALMS, SC 29451		
*Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
Ž.		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under		
(Use a 2nd sheet if needed)		my direction and this report is true to the best of my knowledge and belief.		
5. REMARKS:		,		
		A		
		1/1/2 1/2 2/2/2		
		Signed:		
		Well Drijler /		
6. TYPE: Mud Rotary Jetted		If D Level Driller, provide supervising driller's name:		
☐ Dug ☐ Air Rotary ☐ Driven				
☐ Cable tool ☑ Other	- DPT	Randy Bremel		
		10.000		



PROMOTE PROTECT PROSPER		ott oot, oota		
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: UMW-25497		
Name: JACKSON (last)	CHARLES	01V1 W - 23497		
Address: P.O. BOX 968	(first)	8. USE:		
1.0. BOX 908		☐ Residential ☐ Public Supply ☐ Process		
City: CHERAW State: SC	Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Meniter Well GRAB/H20 ☐ Replacement		
Telephone: Work:	Home:	9. WELL DEPTH (completed) Date Started: 07/16/14		
2. LOCATION OF WELL: CO	OUNTY: CHESTERFIELD			
Name: WINDSOR MART		10. CASING: 🗹 Threaded 🔛 Welded		
Street Address: 820 CHESTERFIE	LD HIGHWAY	Diam.: 1.50" Height: Above Below		
City: CHERAW	Zip: ₂₉₅₆₀	Type: PVC Galvanized Surface ft.		
		☑ Steel □ Other Weight lb./ft.		
Latitude: Longitude) :	in. toft. depth		
	JBLIC SYSTEM NUMBER:	11. SCREEN:		
02314-SB13		Type: STAINLESS STEEL Diam.: 1" 4'		
4. ABANDONMENT:	No	Slot/Gauge: 0.004 Length: 4 ¹ Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS		
20.0	27 m vs . 2 m	ft. andft. USE SECOND SHEET		
Grouted Depth: from 20.0	ft. to SURFACE ft.	Sieve Analysis ☐ Yes (please enclose) ☑ No		
Formation Description	*Thickness Depth to of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours		
r ormation besorption	Stratum Stratum	13. PUMPING LEVEL Below Land Surface.		
TEMPORARY WELL WAS		ft. after hrs. Pumping G.P.M.		
TEM OWNER WEDE WAS		Pumping Test: ☐ Yes (please enclose) ☑ No		
INSTALLED USING A DPT RIG		Yield:		
		14. WATER QUALITY		
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes □No Bacterial Analysis □ Yes □ No Please enclose lab results.		
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No		
		Installed from ft, to ft.		
LOCATION WAS ABANDONED		Effective size Uniformity Coefficient		
		16. WELL GROUTED? ☑ Yes ☐ No		
AFTER SAMPLING 07-16-14.		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other		
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction		
		Type direction		
		Well Disinfected ☐ Yes Ø No Type: Amount:		
		18. PUMP: Date installed: Not installed □		
		Mfr. Name: Model No.:		
		H.P Volts Length of drop pipeft. Capacity gpm		
		TYPE: Submersible Jet (shallow) Turbine		
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
		19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128		
		Address: (Print) Level: A B C D (circle one)		
		14 SAND DUNE LANE		
*Indicate Water Bearing Zones		ISLE OF PALMS, SC 29451 Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under		
(Use a 2nd sheet if needed)		my direction and this report is true to the best of my knowledge and belief.		
5. REMARKS:				
		Signed: Well Driller Date: 3/5//5		
3. TYPE: Mud Rotary Jetted	☐ Bored			
□ Dug □ Air Rote		If D Level Driller, provide supervising driller's name:		
☐ Cable tool ☐ Other -	· ·	Ranky Kanad		
		Lavey / 1100rus		



PROMOTE PROTECT PROSPER	2.000 50	21 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -		
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: UMW-25497		
Name: JACKSON CHARLES		UIVI W - 23497		
(last) (first) Address: P.O. BOX 968		8. USE:		
		☐ Residential ☐ Public Supply ☐ Process		
City: CHERAW State: SC Zip: 29520-0968		☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ MonitorWell GRAB/H20 ☐ Replacement		
Telephone: Work: Home:		9. WELL DEPTH (completed) Date Started: 07/16/14		
	CHESTERFIELD			
Name: WINDSOR MART		10. CASING: Threaded Welded		
Street Address: 820 CHESTERFIELD HIGH	łWAY	Diam.: 1.50" Height: Above Below		
City: CHERAW Zip: 29	560	Type: PVC Galvanized Surfaceft.		
119. 1.		☑ Steel □ Other Weight □ Ib./ft. □ in. to □ ft, depth □ Drive Shee? □ Yes □ No		
Latitude: Longitude:		in. toft, depth Drive Shoe!		
3. PUBLIC SYSTEM NAME: PUBLIC SY 02314-SB14	YSTEM NUMBER:	11. SCREEN: Type: STAINLESS STEEL Diam.: 1"		
4. ABANDONMENT: Yes I No		Slot/Gauge: 0.004 Length: 4'		
		Set Between: 16.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS		
Grouted Depth: from 20.0 ft. to SU	RFACE ft.	Sieve Analysis Yes (please enclose) No		
*Thick	, ,	12. STATIC WATER LEVEL ft, below land surface after 24 hours		
Formation Description of Strate		13. PUMPING LEVEL Below Land Surface.		
	um Stratum	ft. after hrs. Pumping G.P.M.		
TEMPORARY WELL WAS		Pumping Test: ☐ Yes (please enclose) ☑ No		
INSTALLED USING A DPT RIG		Yield:		
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No Please enclose lab results.		
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No Installed fromft. toft.		
LOCATION WAS ABANDONED		Effective size Uniformity Coefficient		
LETTER ALL VIVANA AT A CALL		16. WELL GROUTED? Yes No		
AFTER SAMPLING 07-16-14.		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ☐ Depth: From 20.0		
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction		
		Type		
		Well Disinfected ☐ Yes ☑ No Type: Amount:		
		18. PUMP: Date installed: Not installed		
		Mfr. Name: Model No.:		
		H.P Volts Length of drop pipe ft. Capacity gpm		
		TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
		Address: (Print) Level: A B C D (circle one) 14 SAND DUNE LANE		
		ISLE OF PALMS, SC 29451		
*Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
(Use a 2nd sheet if needed)		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under		
5. REMARKS:		my direction and this report is true to the best of my knowledge and belief.		
		Λ 1		
		Signed:		
		Well Offiler !		
6. TYPE: Mud Rotary Jetted	Bored	If D Level Driller, provide supervising driller's name:		
Dug Air Rotary	☐ Driven	ρ . ρ .		
☐ Cable tool		Kanely Bland		



PROMOTE PROTECT PROSPER	2000 B	an on only oblamble, oo zozot 1700, (000, 000 1000		
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: UMW-25497		
Name: JACKSON CHARLES		U.W. W - 2.349 /		
(last) (first)		8. USE:		
Address: P.O. BOX 968		☐ Residential ☐ Public Supply ☐ Process		
City: CHERAW State: S	C Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency		
CHERAW State. 3	·	☐ Test Well ☐ Monitor-Well GRAB/H20 ☐ Replacement		
Telephone: Work:	Home:	9. WELL DEPTH (completed) Date Started: 07/16/14		
2. LOCATION OF WELL:	COUNTY: CHESTERFIELD			
Name: WINDSOR MART		10. CASING: A Threaded Welded		
Street Address: 820 CHESTERFI	ELD HIGHWAY	Diam.: 1.50" Height; Above Below ☐		
City: CHERAW	Zip: 29560	Type: D PVC D Galvanized Surfaceft.		
**************************************	27300	Steel Other Weight — b./ft.		
Latitude: Longitu	de:	———in, to ———ft, depth Drive Shee? ☐ Yes ☐ No		
		in, to ft. depth		
3. PUBLIC SYSTEM NAME:	PUBLIC SYSTEM NUMBER	11. SCREEN:		
02314-SB1D		Type: STAINLESS STEEL Diam.: 1"		
4. ABANDONMENT:	□ No	Slot/Gauge: 0.004 Length: 4' Set Between: 51.0 ft. and 55.0 ft. NOTE: MULTIPLE SCREENS		
		Set Between: 31.0 ft. and 33.0 ft. NOTE: MULTIPLE SCREENS		
Grouted Depth: from 55.0	ft. to SURFACE ft.	Sieve Analysis Yes (please enclose) No		
	*Thickness Depth to	12. STATIC WATER LEVEL ft. below land surface after 24 hours		
Formation Description	of Bottom of			
	Stratum Stratum	13. PUMPING LEVEL Below Land Surface.		
TEMPORARY WELL WAS		ft. after hrs. Pumping G.P.M.		
		Pumping Test: 🔲 Yes (please enclose) 🖾 No Yield:		
INSTALLED USING A DPT RIG				
		14. WATER QUALITY Chamical Analysis 17 Ves. This Restorial Analysis 17 Ves. 17 No.		
AND A SCREEN POINT 16		Chemical Analysis ☑ Yes □No Bacterial Analysis □ Yes □ No Please enclose lab results.		
	1			
GROUNDWATER SAMPLER.		15. ARTIFICIAL FILTER (filter pack) Yes V No		
I OCATIONI WAS ADANDONED		Installed fromft. toft. Effective size Uniformity Coefficient		
LOCATION WAS ABANDONED				
AFTER CAMPITAGE OF 17.14		_ 16. WELL GROUTED? ☑ Yes 및 No ☑ Neat Cement 및 Bentonite ☐ Bentonite/Cement 및 Other		
AFTER SAMPLING 07-16-14.		Depth: From 55.0 ft. to SURFACE ft.		
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction		
		Type		
		Well Disinfected ☐ Yes ☑ No Type: Amount:		
		18. PUMP: Date installed: Not installed 🗖		
		Mfr. Name: Model No.:		
		H.P. Volts Length of drop pipe ft. Capacity gpm		
		TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine		
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
		19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128		
		Address: (Print) Level: A B C D (circle one)		
		14 SAND DUNE LANE		
		ISLE OF PALMS, SC 29451		
*Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
(Use a 2nd sheet if needed)		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under		
5. REMARKS:		my direction and this report is true to the best of my knowledge and belief.		
J. NEWANNO.				
		()		
		Signed:		
		Well Drifter		
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored		If D Level Driller, provide supervising driller's name:		
□ Dug □ Air Rotary □ Driven				
☐ Cable tool ☑ Othe	r - DPT	Kanda Beanel		
		150000000000000000000000000000000000000		



PROMOTE PROTECT PROSPER		2000 20	an et out, Columbia, CO 2020 1-1700, (000) 000-4000		
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-25497		
Name: JACKSON CHARLES			ON W-23+37		
(last) (first) Address: P.O. BOX 968		St)	8. USE:		
P.O. BOX 908			☐ Residential ☐ Public Supply ☐ Process		
City: CHERAW State: S	SC Zip: 25	9520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitor-Well GRAB/H20 ☐ Replacement		
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 07/16/14		
2. LOCATION OF WELL:	COUNTY: CHES	STERFIELD	55.0 ft. Date Completed: 07/16/14		
Name: WINDSOR MART			10, CASING: ☑ Threaded ☑ Welded		
Street Address: 820 CHESTERFI	ELD HIGHWA	Y	Diam.: 1.50" Height: Above Below ☐		
City: CHERAW	Zip: ₂₉₅₆₀		Type: D PVC D Galvanized Surfaceft.		
			☑ Steel □ Other Weight		
Latitude: Longitu	de:		——— in, to ———— ft. depth		
3. PUBLIC SYSTEM NAME: 02314-SB2D	PUBLIC SYSTE	M NUMBER:	11. SCREEN: Type: STAINLESS STEEL Diam.: 1"		
4. ABANDONMENT:	П №		Slot/Gauge: 0.004 Length: 4'		
		on	Set Between: 51.0 ft. and 55.0 ft. NOTE: MULTIPLE SCREENS ft. and ft. USE SECOND SHEET		
Grouted Depth: from 55.0	_ ft. to SURFAC		Sieve Analysis ☐ Yes (please enclose) ☑ No		
Formation Description	*Thickness of	Depth to Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours		
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.		
TEMPORARY WELL WAS			ft. after hrs. Pumping G.P.M.		
			Pumping Test: ☐ Yes (please enclose) ☑ No		
INSTALLED USING A DPT RIG			Yield:		
AND A SCREEN POINT 16			Chemical Analysis ☑ Yes ☑No Bacterial Analysis ☐ Yes ☐ No Please enclose lab results.		
GROUNDWATER SAMPLER.		A A A A A A A A A A A A A A A A A A A	15. ARTIFICIAL FILTER (filter pack)		
LOCATION WAS ABANDONED			Installed fromft. toft. Effective sizeUniformity Coefficient		
			16. WELL GROUTED? 🔀 Yes 📵 No		
AFTER SAMPLING 07-16-14.			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other		
			Depth: From 55.0 ft. to SURFACE ft.		
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION; ft, direction		
			Type Amount: Amount:		
			18. PUMP: Date installed: Model No.: Not installed Mfr. Name: Model No.:		
			H.P. Volts Length of drop pipe ft, Capacity gpm		
			TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine		
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
			19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128		
			Address: (Print) Level: A B C D (circle one)		
			14 SAND DUNE LANE ISLE OF PALMS, SC 29451		
*Indicate Water Bearing Zones			Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under		
5. REMARKS:			my direction and this report is true to the best of my knowledge and belief.		
			Signed: Well Drifter Date: 3/5/15		
6. TYPE: ☐ Med Rotary ☐ Jette	d Ma	Bored			
□ Dug □ Air R		Oriven	If D Level Ofiller, provide supervising driller's name:		
☐ Cable tool ☑ Othe	•		Roman Brand		
			1-1/4/10/2 11/0V/10V		



PROMOTE PROTECT PROSPER		2000 00	an officer, contribut, co 29201-1700, (603) 696-4300		
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-25497		
Name: JACKSON CHARLES			UMW-23497		
(last) (first)		st)	8. USE:		
Address: P.O. BOX 968			☐ Residential ☐ Public Supply ☐ Process		
City: CHERAW State: S	C Zip: 20	9520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency		
011210111	C 2.p. 2.	7520-0500	☐ Test Well ☐ Monitor Well GRAB/H20 ☐ Replacement		
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 07/16/14		
2. LOCATION OF WELL:	COUNTY: CHES	STERFIELD	55.0 ft. Date Completed; 07/16/14		
Name: WINDSOR MART			10. CASING: A Threaded Weided		
Street Address: 820 CHESTERFI	ELD HIGHWA'	Y	Diam.: 1.50" Height: Above Below		
City: CHERAW	Zip: 29560	•	Type: D PVC D Galvanized Surfaceft.		
	2,500		☑ Steel □ Other Weight		
Latitude: Longitue	de:		in. to — ft. depth Drive Shee? Yes No		
·			in. toft. depth		
3. PUBLIC SYSTEM NAME: F	UBLIC SYSTE	M NUMBER:	11. SCREEN:		
02314-SB3D			Type: STAINLESS STEEL Diam.: 1"		
4. ABANDONMENT:] No		Slot/Gauge: 0.004 Length: 4'		
			Set Between: 51.0 ft. and 55.0 ft. NOTE; MULTIPLE SCREENS		
Grouted Depth: from 55.0	ft. to SURFAC	CE ft.	ft. andft. USE SECOND SHEET		
	*Thickness	Depth to	Sieve Analysis Yes (please enclose) No		
Formation Description	of	Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours		
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.		
TEMPORARY WELL WAS			ft. afterhrs. PumpingG.P.M.		
			Pumping Test: Yes (please enclose) No		
INSTALLED USING A DPT RIG			Yield:		
			14. WATER QUALITY		
AND A SCREEN POINT 16			Chemical Analysis ☑ Yes □No Bacterial Analysis □ Yes □ No Please enclose lab results.		
GROUNDWATER SAMPLER.			15. ARTIFICIAL FILTER (filter pack)		
LOCATIONIUMS ADANDONED			Installed fromft. toft. Effective sizeUniformity Coefficient		
LOCATION WAS ABANDONED					
AFTER SAMPLING 07-16-14.			16. WELL GROUTED? ☑ Yes ☑ No		
AFTER SAMPLING U7-10-14.			☑ Neat Cement □ Bentonite □ Bentonite/Cement □ Other □ Depth: From 55.0 ft. to SURFACE ft.		
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction		
			Type Amount: Amount:		
			18. PUMP: Date installed: Not installed [
			Mfr. Name: Model No.:		
			H.P Volts Length of drop pipe ft. Capacity gpm TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine		
			TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
			TOTAL AND D		
			Address: (Print) Level: A B C D (circle one) 14 SAND DUNE LANE		
		İ	ISLE OF PALMS, SC 29451		
*Indicate Water Bearing Zones			Telephone No.: 843-873-8200 Fax No.: 843-873-8765		
(I) 6 1 1 · · · · · · · ·		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under			
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.		
5. REMARKS:					
			$\int \int $		
			Signed:		
			Signed: Date: Date: Date:		
6. TYPE: ☐ Mud Rotary ☐ Jetted	ri n	lored			
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Driven ☐ Driven			If D Level Driller, provide supervising driller's name:		
☐ Cable tool ☑ Other	•		(and Locann)		
		<u></u>]	Landy Brand		



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SOIL BORING LOG

SOIL BORING #: 02314-SB1
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

CLIENT: MR. CHARLES JACKSON

SAMPLE RETRIEVED: 15-19 FT BGS

Level

Water I

DRILLING COMPANY: TERRY EXPLORATION, LLC. DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/14/14 FINISH DATE: 07/14/14

TERMINATION DEPTH: 19 FT BGS WATER LEVEL: EST 16 FT BGS ABANDONMENT METHOD NEAT CEMENT

_				
Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content

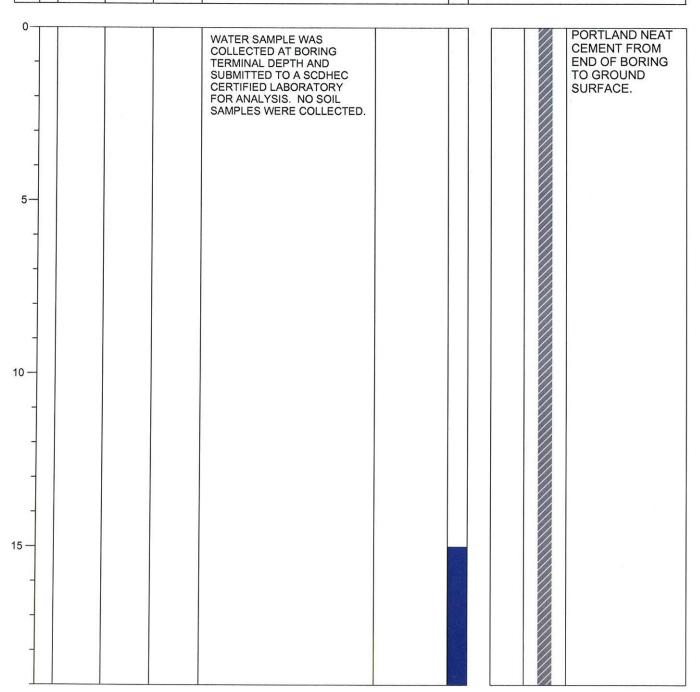
Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.

BORING ABANDONMENT





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SOIL BORING LOG

SOIL BORING #: 02314-SB2
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKSON

DRILLING COMPANY: TERRY EXPLORATION, LLC. DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/14/14 FINISH DATE: 07/14/14

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

Level

Water

_	1 17			
Depth Scale	Soil Sample	Odor	PID/OVA	foisture Content

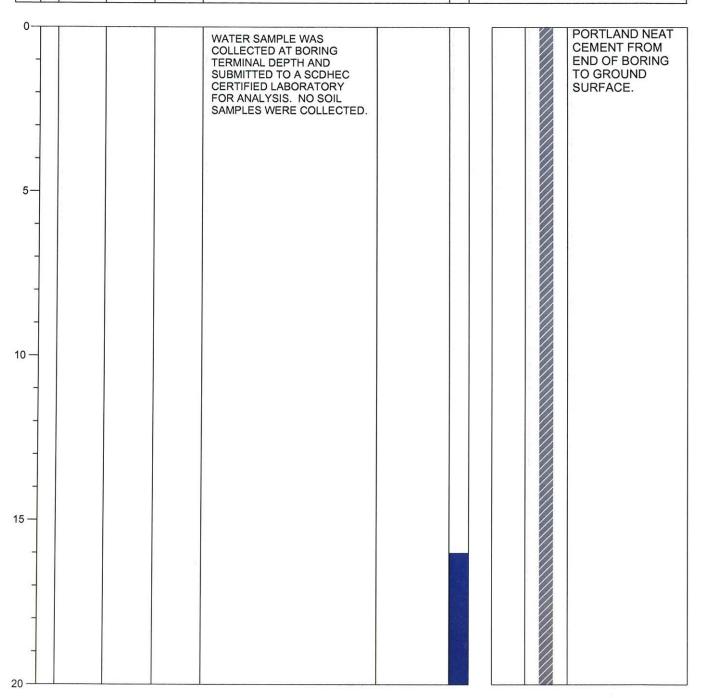
Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.

BORING ABANDONMENT





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SOIL BORING LOG

SOIL BORING #: 02314-SB3
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A

SCDHEC SITE ID #: 02314 CLIENT: MR. CHARLES JACKSON

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: <u>JOHN S KERR (CERT #2128D)</u> FIELD PERSONNEL: <u>T. WATERHOUSE</u>

START DATE: 07/14/14 FINISH DATE: 07/14/14

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

Level

Water

	1 1			
Depth Scale	Soil Sample	Odor	PID/OVA	Noisture Content

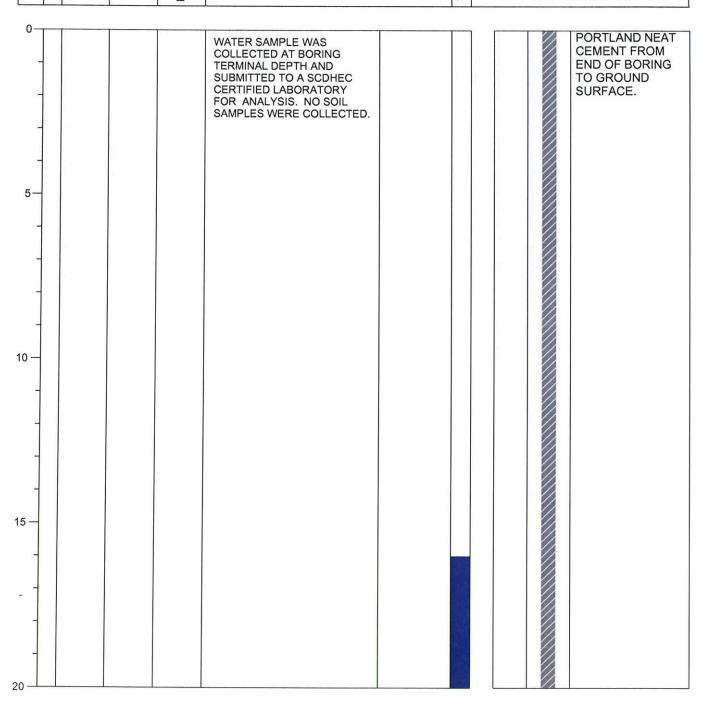
Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.

BORING ABANDONMENT





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SOIL BORING LOG

SOIL BORING #: 02314-SB4
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

CLIENT: MR. CHARLES JACKSON

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: JOHN S KERR (CERT #2128D) FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/14/14 FINISH DATE: 07/14/14

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

Level

Water L

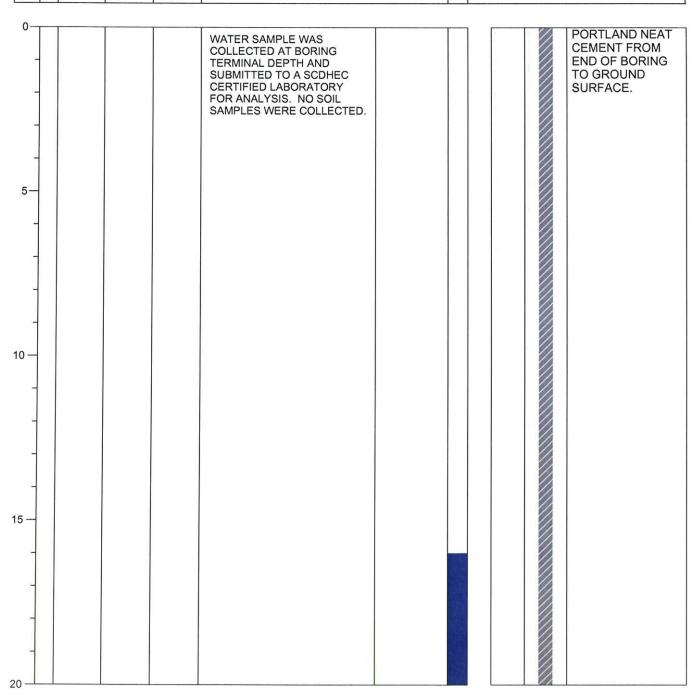
_	1 1			_
Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

CLIENT: MR. CHARLES JACKSON

Water Level

SOIL BORING #: 02314-SB5
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

DRILLING COMPANY: TERRY EXPLORATION, LLC.
DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/14/14 FINISH DATE: 07/14/14

TERMINATION DEPTH: 20 FT BGS
WATER LEVEL: EST 16 FT BGS
ABANDONMENT METHOD NEAT CEMENT
SAMPLE RETRIEVED: 16-20 FT BGS

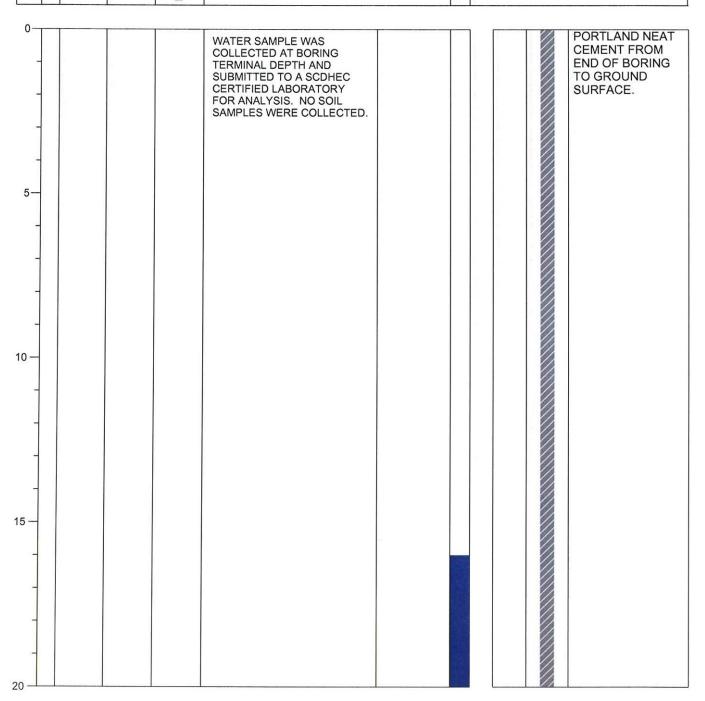
	T		I	1
Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB6 TERRY PROJECT: WINDSOR MART PROJECT LOCATION: CHERAW, SC TERRY PROJECT #: 2171.9A

SCDHEC SITE ID #: 02314 CLIENT: MR. CHARLES JACKSON

Level

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE START DATE: 07/14/14

FINISH DATE: 07/14/14

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS

ABANDONMENT METHOD NEAT CEMENT SAMPLE RETRIEVED: 16-20 FT BGS

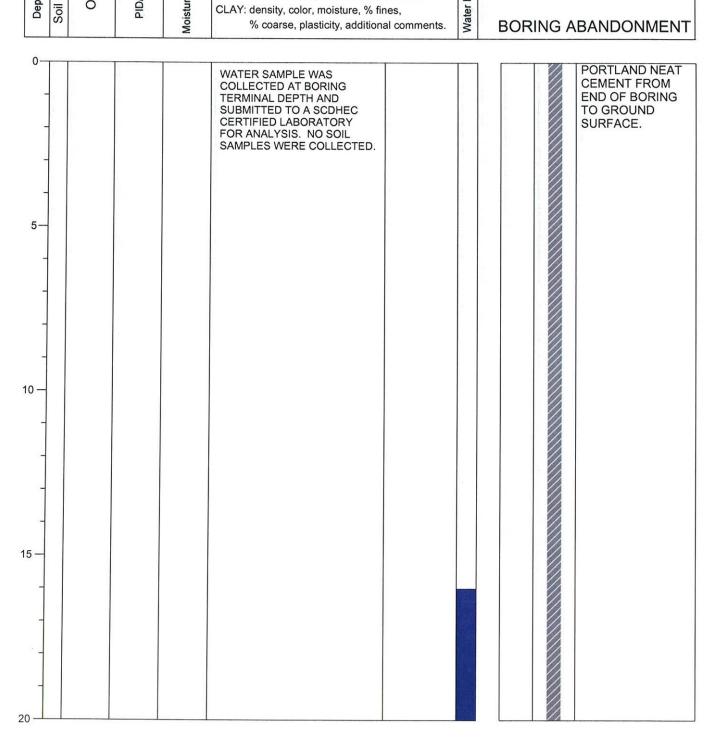
Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content
Dep	Soil	0	GG.	Aoistu

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB7
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A

SCDHEC SITE ID #: 02314 CLIENT: MR. CHARLES JACKSON

Level

Water I

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/14/14 FINISH DATE: 07/14/14

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS

ABANDONMENT METHOD: NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

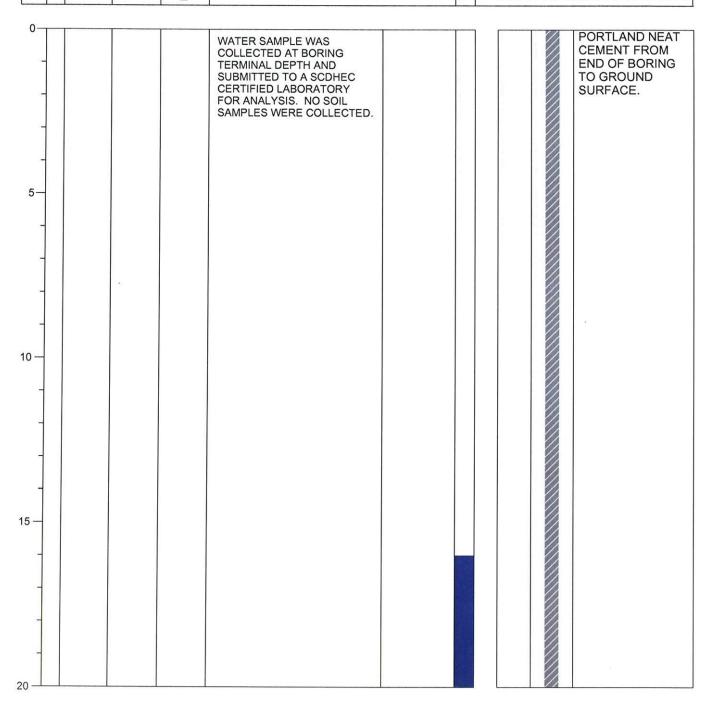
	1 T		1-	1
Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB8 TERRY PROJECT: WINDSOR MART PROJECT LOCATION: CHERAW, SC TERRY PROJECT #: 2171.9A

SCDHEC SITE ID #: 02314 CLIENT: MR. CHARLES JACKSON

Level

DRILLING COMPANY: TERRY EXPLORATION, LLC DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/14/14 FINISH DATE: 07/14/14 TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS

ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

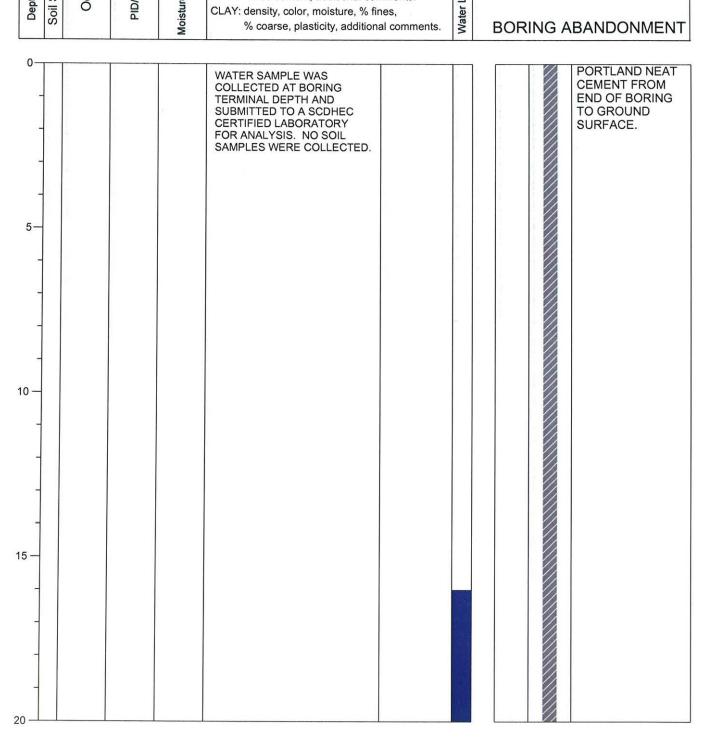
sale	ple			ntent
Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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DRILLING COMPANY: TERRY EXPLORATION, LLC

DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

SOIL BORING LOG

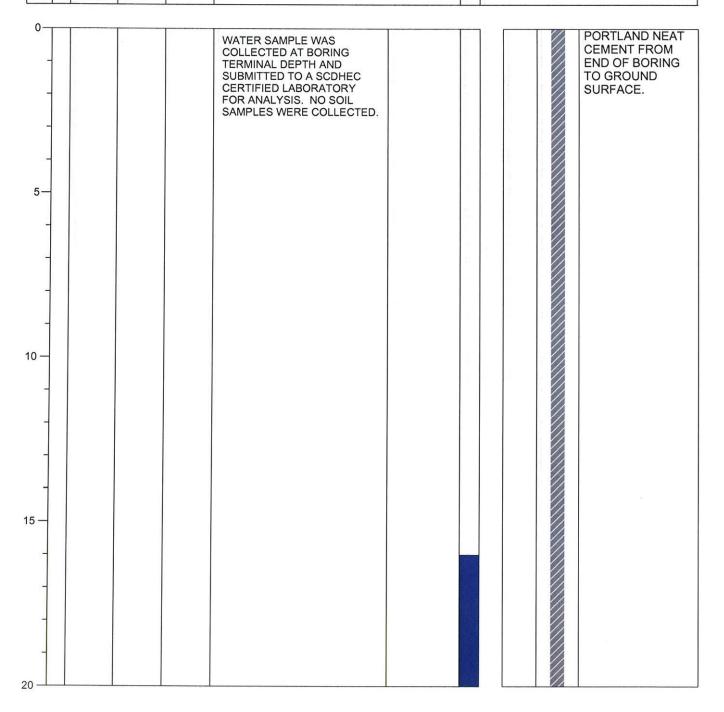
SOIL BORING #: 02314-SB9
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

CLIENT: MR. CHARLES JACKSON

TERMINATION DEPTH: 20 FT BGS
WATER LEVEL: EST 16 FT BGS

WATER LEVEL: <u>EST 16 FT BGS</u>
ABANDONMENT METHOD NEAT CEMENT
SAMPLE RETRIEVED: 16-20 FT BGS

START DATE: 07/14/14 FINISH DATE: 07/14/14		SAMF	LE	RETRIEVED: 16-20 FT BGS				
Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology SAND: color, moisture, gradation, grain six fines content, additional comments CLAY: density, color, moisture, % fines, % coarse, plasticity, additional com	S.	Water Level	BORING ABANDONMENT





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SOIL BORING LOG

SOIL BORING #: 02314-SB10
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

CLIENT: MR. CHARLES JACKSON

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/14/14 F

FINISH DATE: 07/14/14

TERMINATION DEPTH: 20 FT BGS

WATER LEVEL: <u>EST 16 FT BGS</u> ABANDONMENT METHOD<u>NEAT CEMENT</u>

SAMPLE RETRIEVED: 16-20 FT BGS

Level

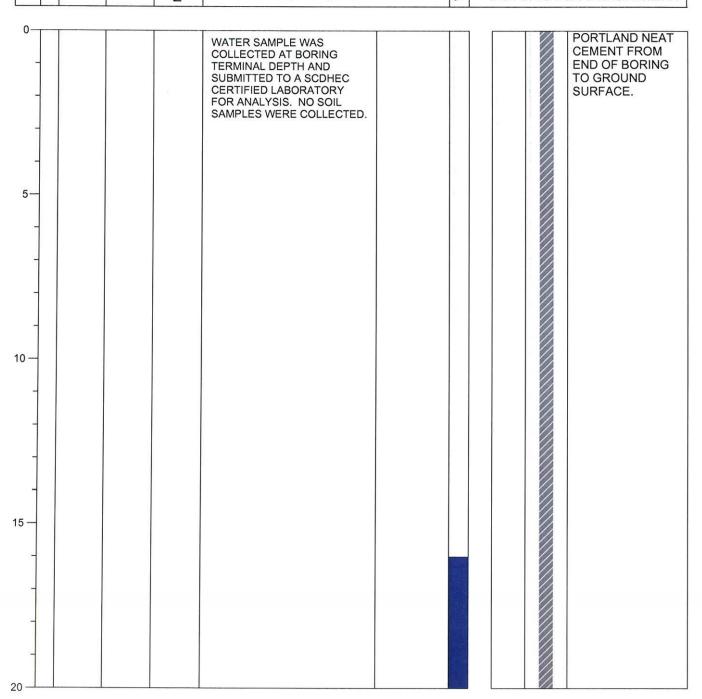
Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB11
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A

SCDHEC SITE ID #: 02314 CLIENT: MR. CHARLES JACKSON

Level

Water

DRILLING COMPANY: TERRY EXPLORATION, LLC. DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/16/2014 FINISH DATE: 07/16/2014

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

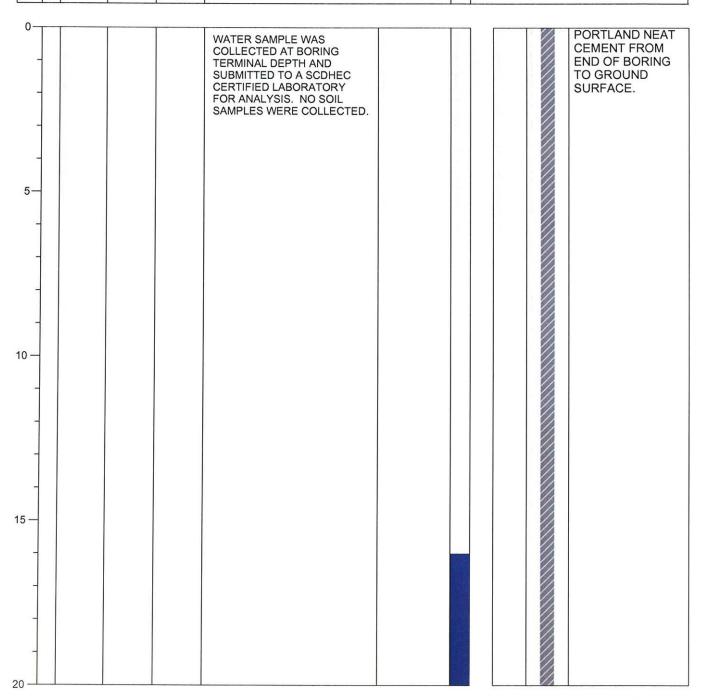
	13			1
Depth Scale	soil sample	Odor	PID/OVA	Noisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB12
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKSON

Level

Water I

DRILLING COMPANY: TERRY EXPLORATION, LLC. DRILLER: JOHN S KERR (CERT #2128D)

EIELD DEDONNEL T WATERLOUGE

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/16/2014 FINISH DATE: 07/16/2014

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS

ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

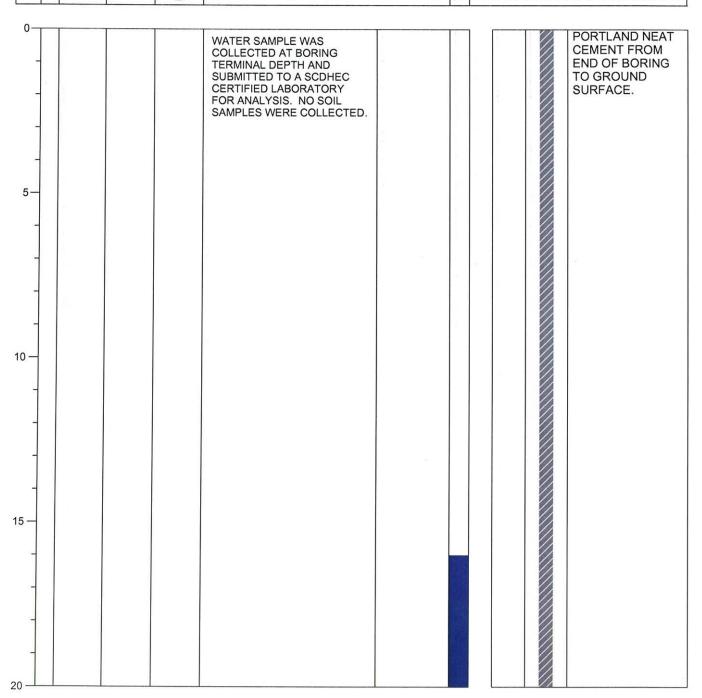
-	1 1			
Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB13 TERRY PROJECT: WINDSOR MART PROJECT LOCATION: CHERAW, SC TERRY PROJECT #: 2171.9A SCDHEC SITE ID #: 02314

CLIENT: MR. CHARLES JACKSON

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/16/2014 FINISH DATE: 07/16/2014 TERMINATION DEPTH: 20 FT BGS

WATER LEVEL: EST 16 FT BGS ABANDONMENT METHOD: NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

Water Level

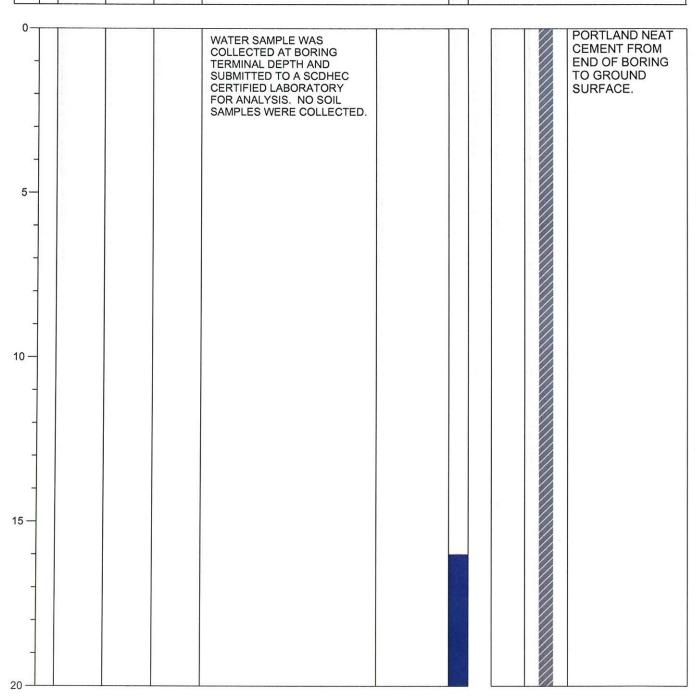
Depth Scale	Soil Sample	lor	OVA	Aoisture Content
Depth	Soil S	Odor	PID/OVA	Aoisture

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB14
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKSON

DRILLING COMPANY: TERRY EXPLORATION, LLC. DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

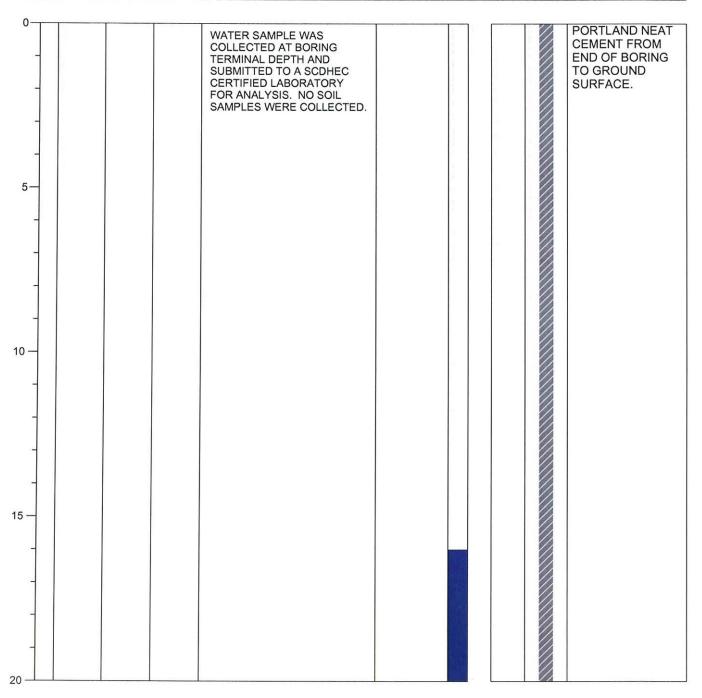
START DATE: 07/16/2014 FINISH DATE: 07/16/2014

TERMINATION DEPTH: 20 FT BGS WATER LEVEL: EST 16 FT BGS

ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 16-20 FT BGS

Page State S	Water Level	BORING ABANDONMENT
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SOIL BORING LOG

CLIENT: MR. CHARLES JACKON

Level

Water

SOIL BORING #: 02314-SB1D55
TERRY PROJECT:WINDSOR MART
PROJECT LOCATION:CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

DRILLING COMPANY: TERRY EXPLORATION, LLC.
DRILLER: JOHN S KERR (CERT #2128D)
FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/16/2014 FINISH DATE: 07/16/2014

TERMINATION DEPTH: 55 FT BGS WATER LEVEL: EST 16 FT BGS

ABANDONMENT METHOD NEAT CEMENT SAMPLE RETRIEVED: 51-55 FT BGS

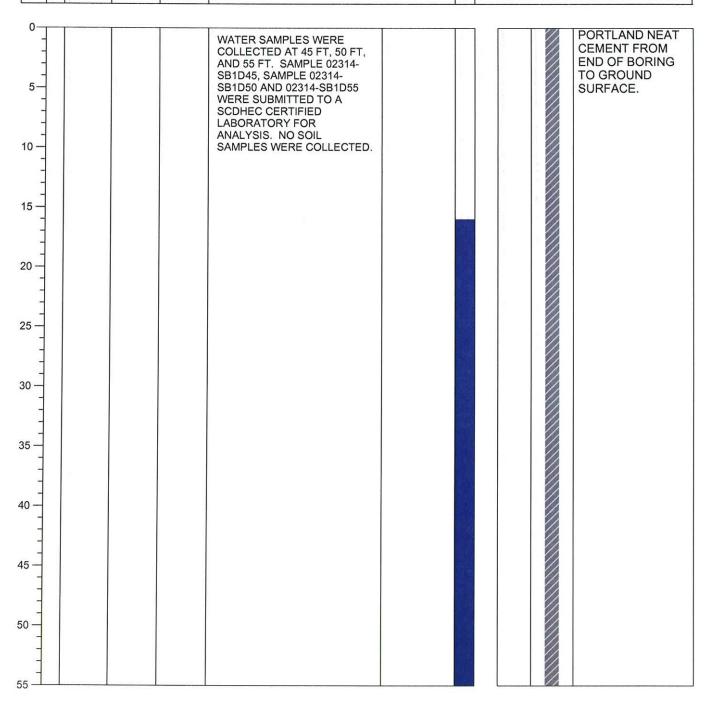
Soil Sail Sail Odo Odo PID/OV	Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content
-------------------------------	-------------	-------------	------	---------	------------------

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB2D55
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314

CLIENT: MR. CHARLES JACKON

Level

Water

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: JOHN S KERR (CERT #2128D)

FIELD PERSONNEL: T. WATERHOUSE

START DATE: 07/16/2014 FINISH DATE: 07/16/2014

TERMINATION DEPTH: 55 FT BGS WATER LEVEL: EST 16 FT BGS

ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 51-55 FT BGS

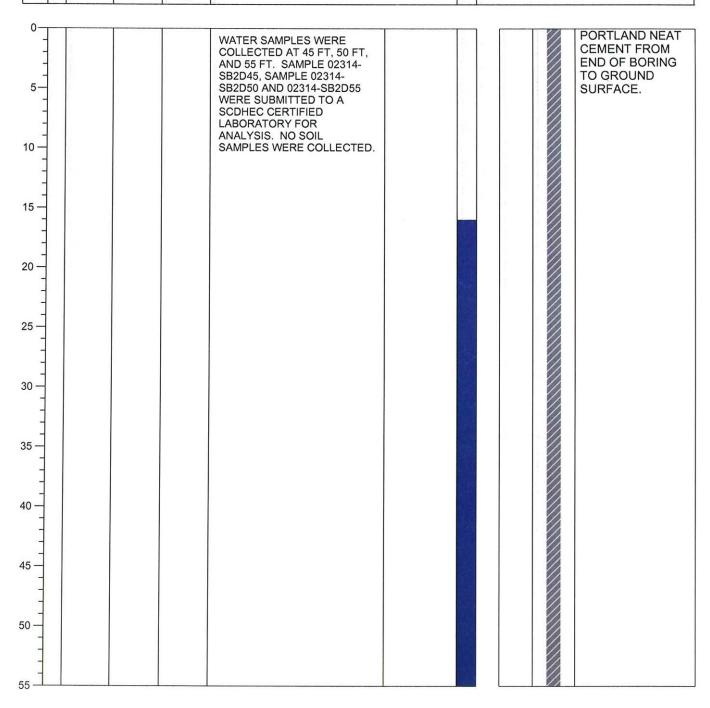
Depth Scale Soil Sample	Odor	PID/OVA	Aoisture Content
S		<u>a.</u>	Aois

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines,

% coarse, plasticity, additional comments.





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SOIL BORING LOG

SOIL BORING #: 02314-SB3D55
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT #: 2171.9A SCDHEC SITE ID #: 02314

Level

Water

DRILLING COMPANY: TERRY EXPLORATION, LLC.

DRILLER: <u>JOHN S KERR (CERT #2128D)</u> FIELD PERSONNEL: <u>T. WATERHOUSE</u>

START DATE: 07/16/2014 FINISH DATE: 07/16/2014

TERMINATION DEPTH: 55 FT BGS WATER LEVEL: EST 16 FT BGS

CLIENT: MR. CHARLES JACKON

ABANDONMENT METHOD NEAT CEMENT

SAMPLE RETRIEVED: 51-55 FT BGS

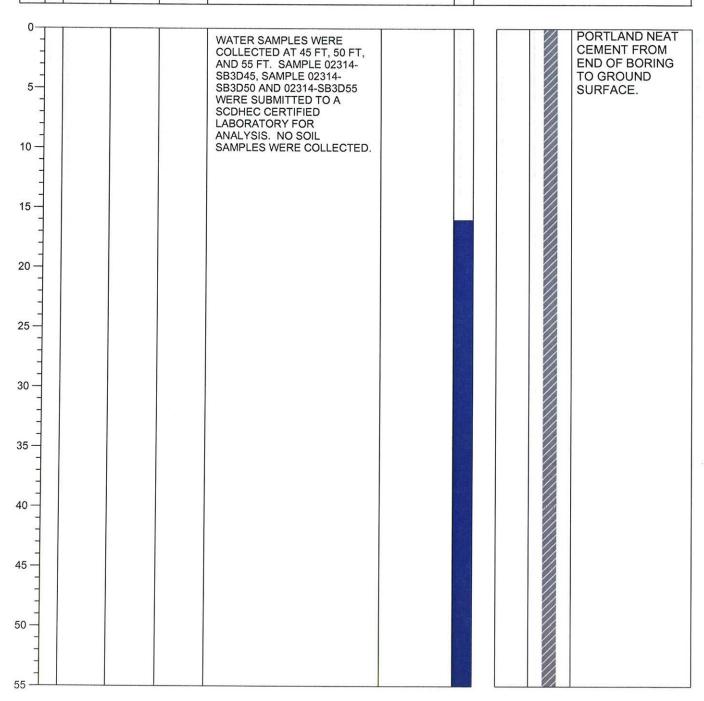
	T		T	
Depth Scale	Soil Sample	Odor	PID/OVA	Aoisture Content

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

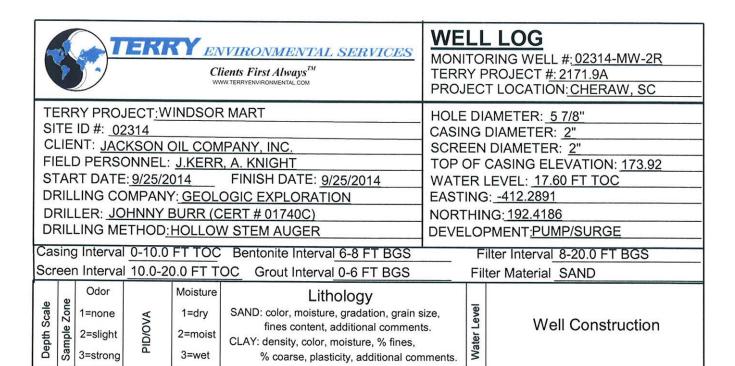
CLAY: density, color, moisture, % fines,

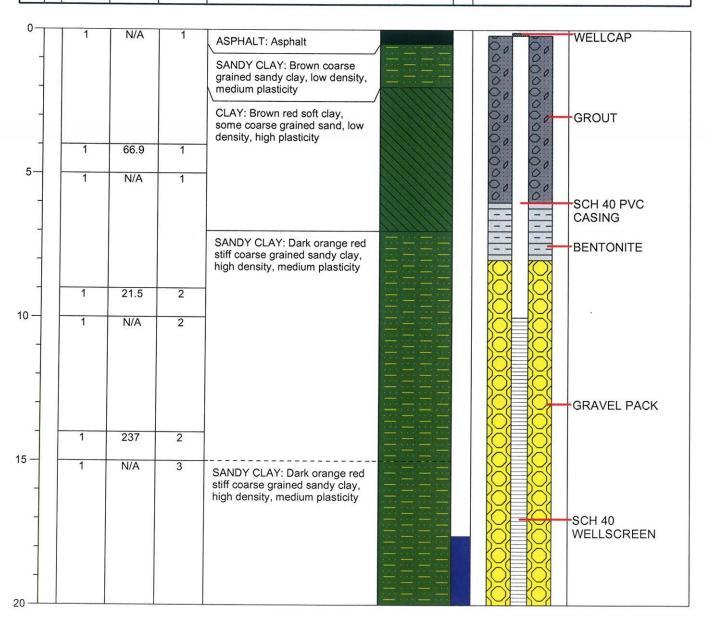
% coarse, plasticity, additional comments.



APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms







Level

Water

MONITORING WELL #: 02314-MW-5 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART

SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: J.KERR, A. KNIGHT

START DATE: 9/25/2014 FINISH DATE: 9/25/2014

DRILLING COMPANY: GEOLOGIC EXPLORATION

DRILLER: JOHNNY BURR (CERT # 01740C)

DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 174.97

WATER LEVEL: 18.51 FT TOC

EASTING: -297.0754

NORTHING: 171.7614
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS
Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS

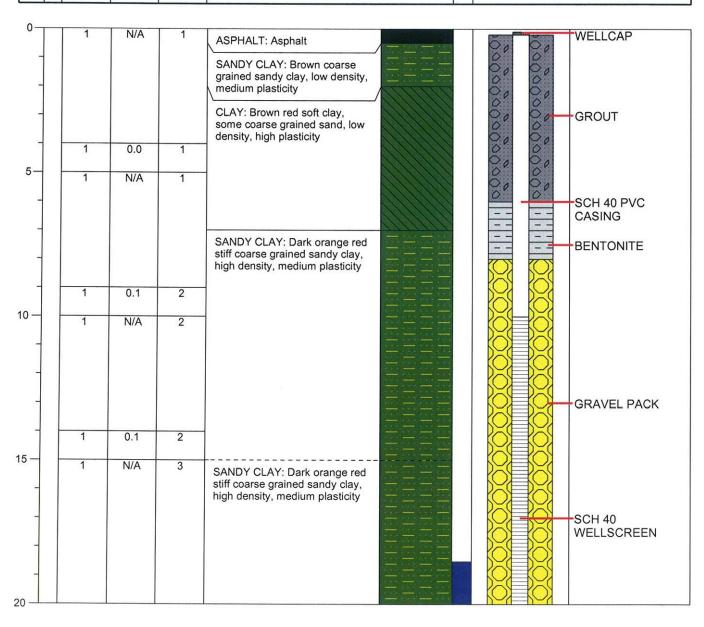
Filter Interval 8.0-20.0 FT BGS
Filter Material SAND

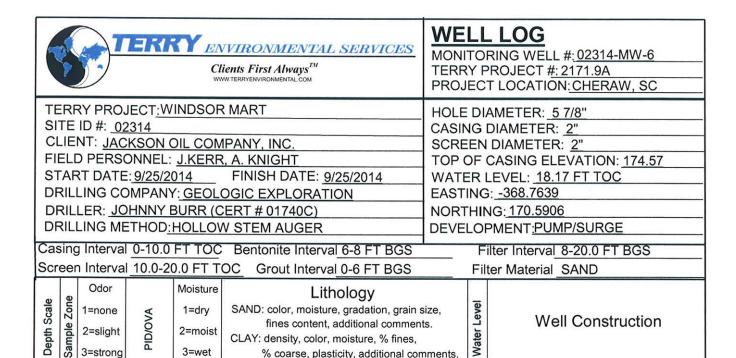
170 577					_
	0	Odor		Moisture	
cale	Zone	1=none	*	1=dry	
oth S	ple	2=slight	D/O	2=moist	
Depth	San	3=strong	₫	3=wet	

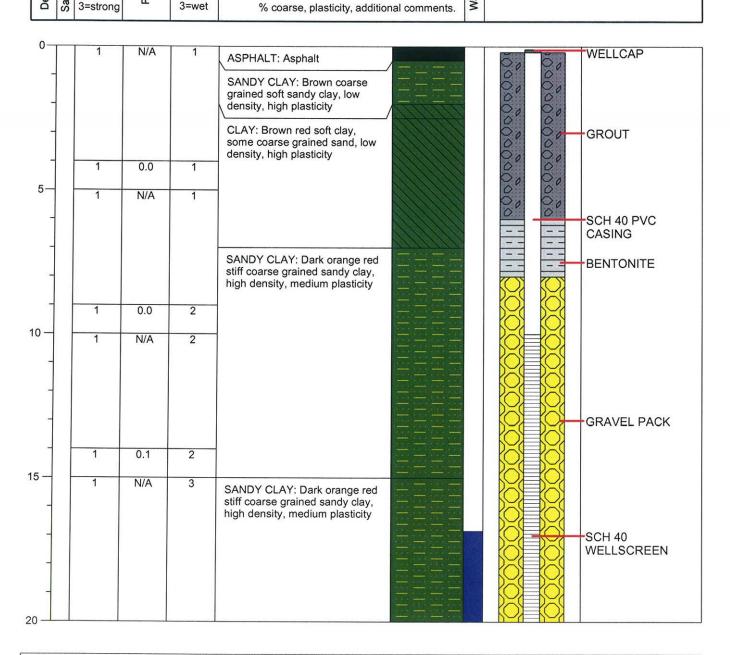
SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.

Lithology



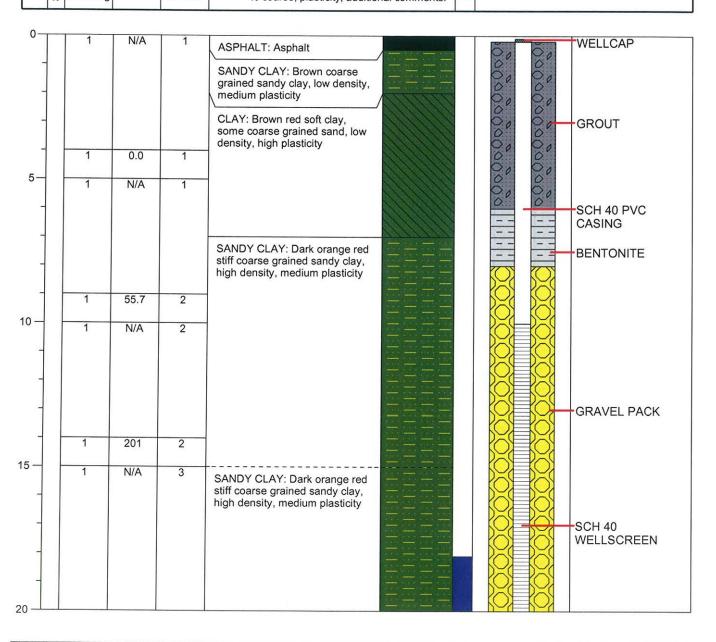






HOLE DIAMETER: 5 7/8"	
CASING DIAMETER: 2"	
SCREEN DIAMETER: 2"	
TOP OF CASING ELEVATION: 174.2	
WATER LEVEL: 18.09 FT TOC	
EASTING: <u>-435.5512</u>	
NORTHING: 180.7126	
DEVELOPMENT:PUMP/SURGE	

- 1	Jasii	ig interva	0-10.0	FITOC	Bentonite Interval 6-8 FT BGS	F	ilter Interval 8-20.0 FT BGS
3	Scre	en Interva	1 10.0-2	0.0 FT T	OC Grout Interval 0-6 FT BGS	Fil	ter Material SAND
- 1	epth Scale	Odor 1=none 2=slight 3=strong	PID/OVA	Moisture 1=dry 2=moist 3=wet	Lithology SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.	Water Level	Well Construction





WELL LOG

MONITORING WELL #: 02314-MW-8

TERRY PROJECT #: 2171 9A

TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: J.KERR, A. KNIGHT
START DATE: 9/25/2014 FINISH DATE: 9/25/2014
DRILLING COMPANY: GEOLOGIC EXPLORATION
DRILLER: JOHNNY BURR (CERT # 01740C)
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 173.79

WATER LEVEL: 17.55 FT TOC

EASTING: -474.3049

NORTHING: 0

DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS
Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS

Filter Interval 8-20.0 FT BGS

Filter Material SAND

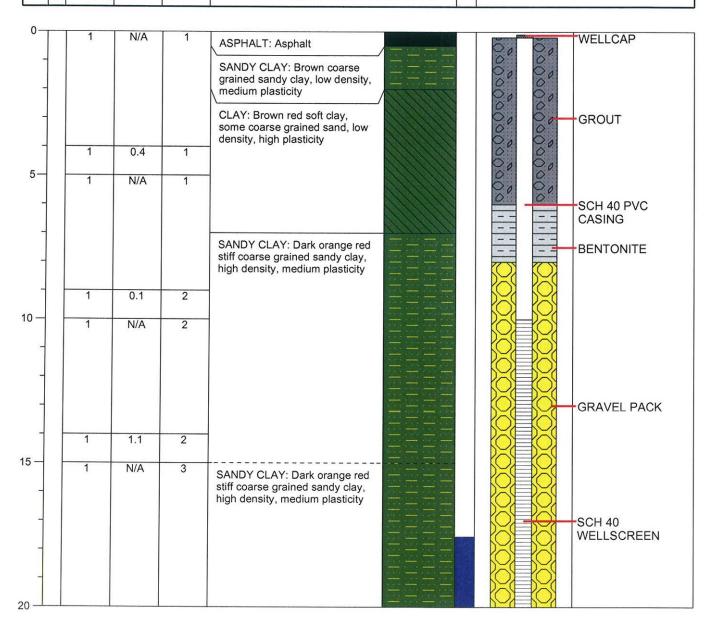
Water Level

		Odor		Moisture	
cale	Zone	1=none	₹	1=dry	Sore
S th	ple	2=slight	0/0	2=moist	
Dep	San	3=strong	<u>a</u>	3=wet	

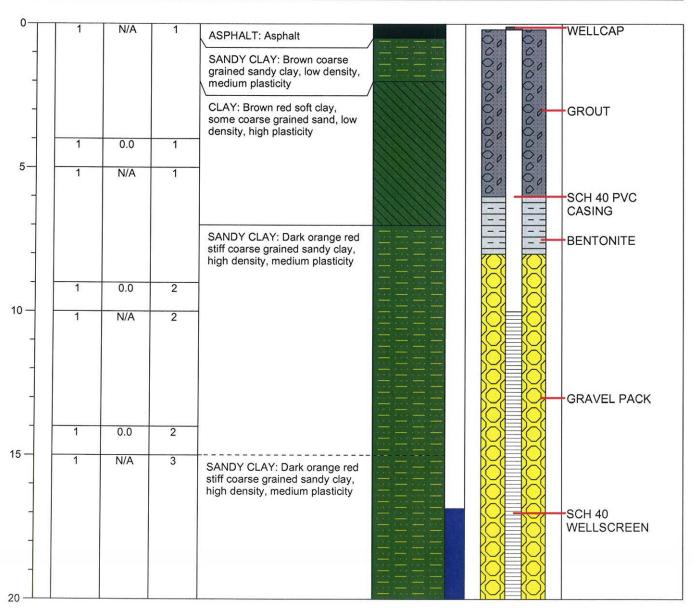
Lithology

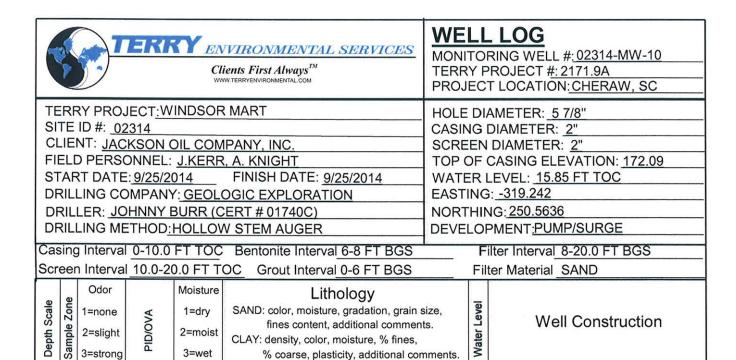
SAND: color, moisture, gradation, grain size, fines content, additional comments.

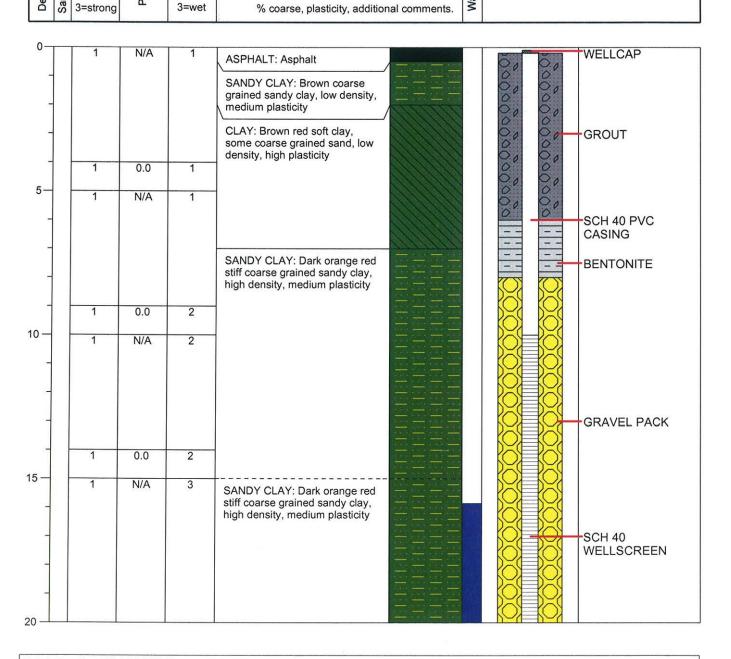
CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.













MONITORING WELL #: 02314-MW-11 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART

SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: J.KERR, A. KNIGHT

START DATE: 9/25/2014 FINISH DATE: 9/25/2014

DRILLING COMPANY: GEOLOGIC EXPLORATION

DRILLER: JOHNNY BURR (CERT # 01740C)

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 172.07

WATER LEVEL: 15.95 FT TOC

EASTING: -381.9632

Well Construction

NORTHING: 281.8814
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS

DRILLING METHOD: HOLLOW STEM AUGER

Filter Interval 8-20.0 FT BGS
Filter Material SAND

Nater Level

					_
	0	Odor		Moisture	
cale	Zone	1=none	₹	1=dry	
epth So	ple	2=slight	D/O	2=moist	
Det	San	3=strong	₫.	3=wet	

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.

0 N/A WELLCAP TOPSOIL: Topsoil SANDY CLAY: Brown coarse grained soft sandy clay, low density, high plasticity CLAY: Brown red soft clay, GROUT some coarse grained sand, low density, high plasticity 0.0 5 N/A 1 SCH 40 PVC CASING BENTONITE CLAY: Dark orange red stiff clay, some coarse grained sand high density, medium plasticity 0.0 10 N/A **GRAVEL PACK** 0.6 CLAY: Dark orange red stiff 15 1 N/A 3 clay, some coarse grained sand high density, medium plasticity SCH 40 WELLSCREEN



Water Level

MONITORING WELL #: 02314-MW-12 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TERRY PROJECT; WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: J.KERR, A. KNIGHT
START DATE: 9/25/2014 FINISH DATE: 9/25/2014
DRILLING COMPANY: GEOLOGIC EXPLORATION
DRILLER: JOHNNY BURR (CERT # 01740C)
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 172.54

WATER LEVEL: 16.40 FT TOC

EASTING: -407.007

NORTHING: 286.1645

DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS
Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS

Filter Interval 8-20.0 FT BGS

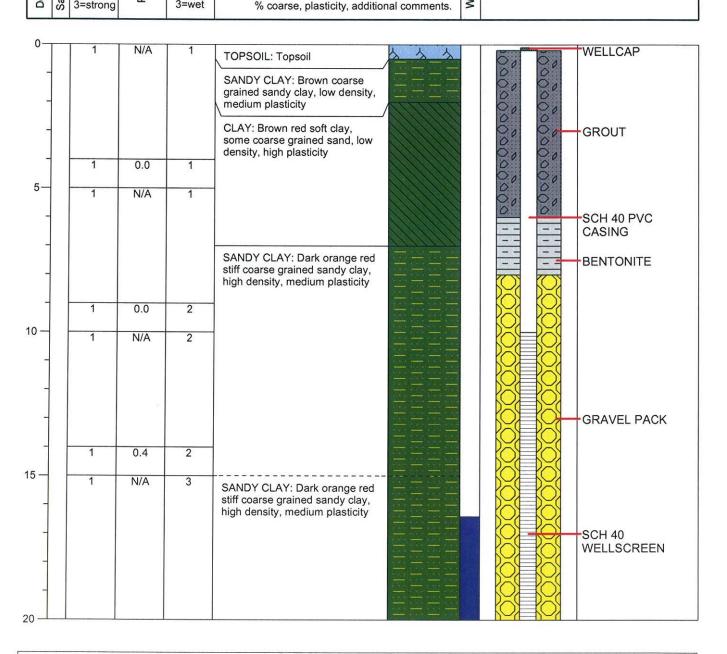
Filter Material SAND

		Odor		Moisture
cale	Zone	1=none	¥.	1=dry
oth S	ple	2=slight	0/0	2=moist
Dep	San	3=strong	<u>a</u>	3=wet

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.





Water Level

MONITORING WELL #: 02314-MW-13 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: J.KERR, A. KNIGHT
START DATE: 9/25/2014 FINISH DATE: 9/25/2014
DRILLING COMPANY: GEOLOGIC EXPLORATION
DRILLER: JOHNNY BURR (CERT # 01740C)
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 172.64

WATER LEVEL: 17.20 FT TOC

EASTING: -495.5372

NORTHING: 254.7884

DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS

Filter Interval 8-20.0 FT BGS

Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS

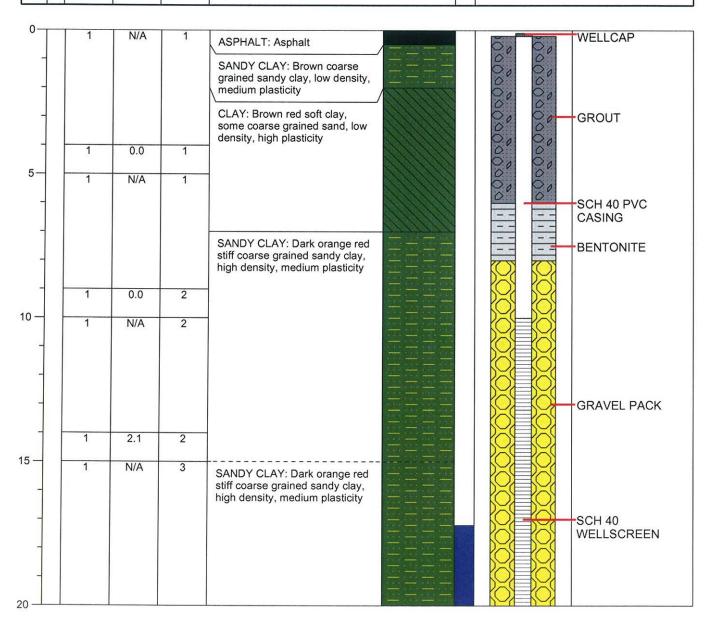
Filter Material SAND

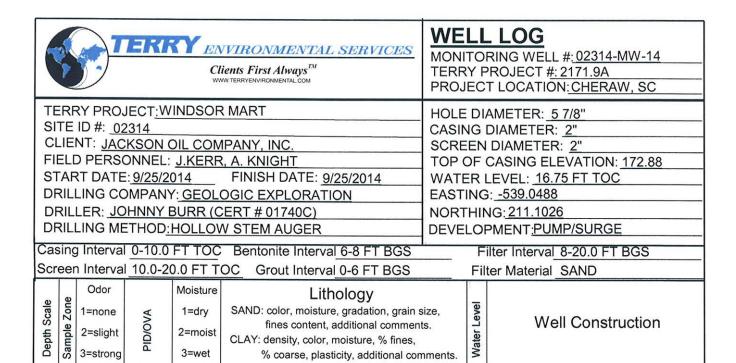
	4	Odor		Moisture	
cale	Zone	1=none	<	1=dry	
oth S	ple	2=slight	0/0	2=moist	
Dep	San	3=strong	<u>a</u>	3=wet	

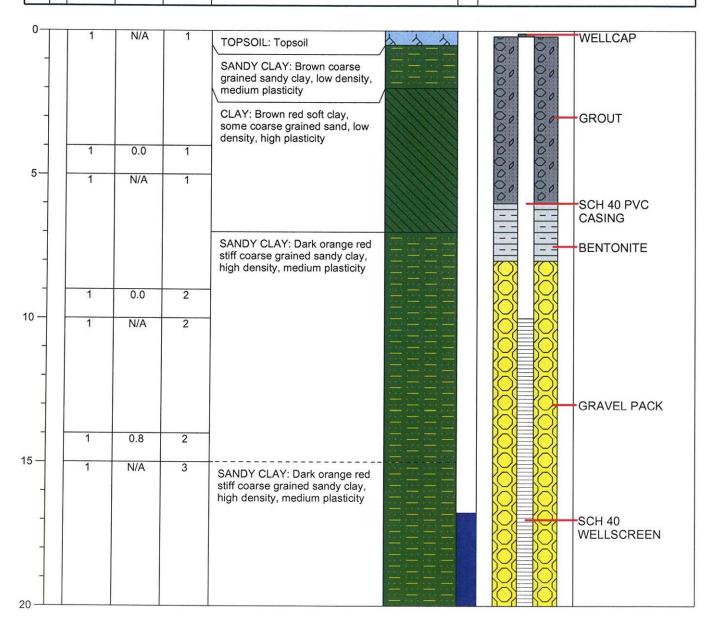
Lithology

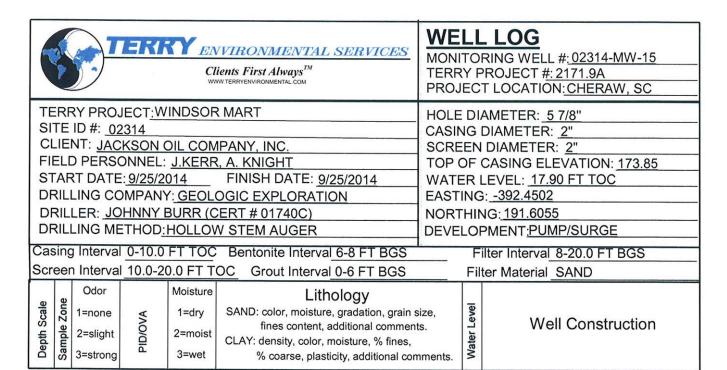
SAND: color, moisture, gradation, grain size, fines content, additional comments.

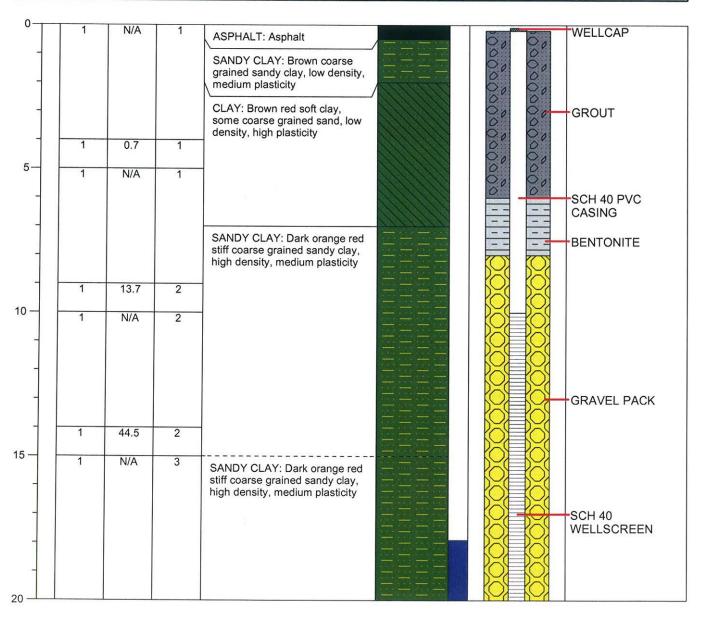
CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.













MONITORING WELL #: 02314-MW-16 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

HOLE DIAMETER: 5 7/8" CASING DIAMETER: 2" SCREEN DIAMETER: 2" TOP OF CASING ELEVATION: 176.97 WATER LEVEL: 21.50 FT TOC EASTING: -312.71 NORTHING: 62.4051 DEVELOPMENT: PUMP/SURGE

TERRY PROJECT: WINDSOR MART SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: A. KNIGHT

START DATE: 11/8/2014 FINISH DATE: 11/8/2014

DRILLING COMPANY: TERRY EXPLORATION

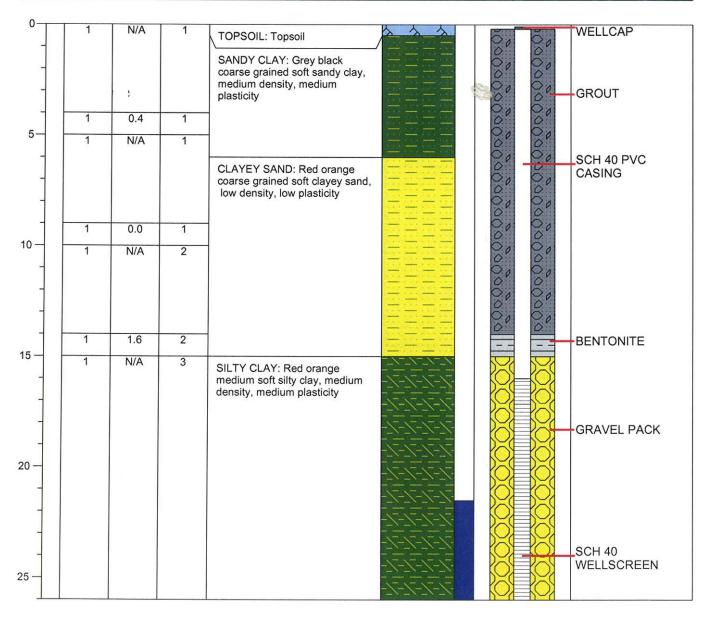
DRILLER: JOHN S. KERR (CERT# 2128D)

DRILLING METHOD: HOLLOW STEM AUGER

Casing Interval 0-16.0 FT TOC Bentonite Interval 14-15 FT BGS

Filter Interval 15-26.0 FT BGS

Scr	eer	n Interval	16.0-2	6.0 FT T	OC Grout Interval 0-14 FT BGS	Fil	ter Material SAND
Depth Scale	Sample Zone	Odor 1=none 2=slight 3=strong	PID/OVA	Moisture 1=dry 2=moist 3=wet	Lithology SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.	Water Level	Well Construction





MONITORING WELL #: 02314-MW-17 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

HOLE DIAMETER: 5 7/8" CASING DIAMETER: 2" SCREEN DIAMETER: 2" TOP OF CASING ELEVATION: 176.13 WATER LEVEL: 20.10 FT TOC EASTING: -380.6549 NORTHING: 57.9465

START DATE: 11/4/2014 FINISH DATE: 11/5/2014 DRILLING COMPANY: TERRY EXPLORATION DRILLER: JOHN S. KERR (CERT# 2128D)

DRILLING METHOD:HOLLOW STEM AUGER

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: A. KNIGHT

DEVELOPMENT: PUMP/SURGE

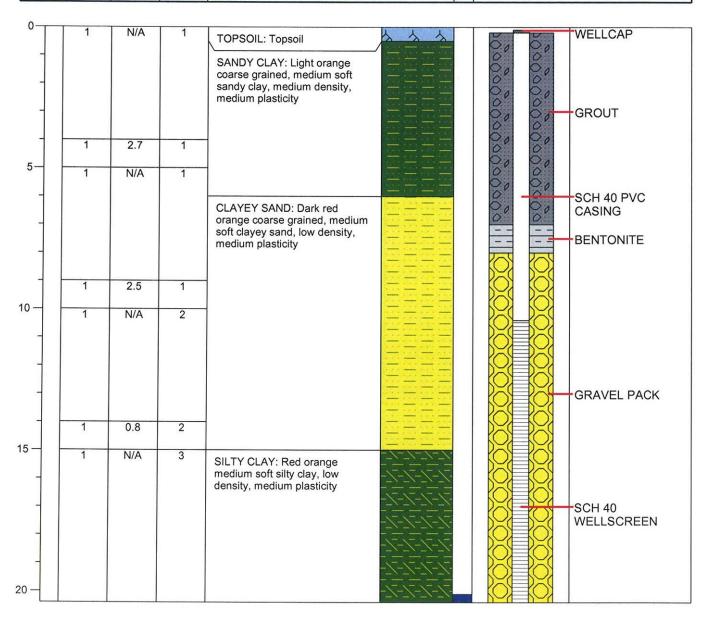
Water Level

WELL LOG

Casing Interval 0-10.4 FT TOC Bentonite Interval 7-8 FT BGS Filter Interval 8-20.4 FT BGS Screen Interval 10.4-20.4 FT TOC Grout Interval 0-7 FT BGS Filter Material SAND

const		Odor		Moisture	
cale	Zone	1=none	*	1=dry	SAND
S th	uple	2=slight	D/O	2=moist	CLAY
Del	San	3=strong	<u>a</u>	3=wet	

Lithology D: color, moisture, gradation, grain size, fines content, additional comments. Y: density, color, moisture, % fines, % coarse, plasticity, additional comments.





HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

EASTING: -471.9887

NORTHING: 71.2045

MONITORING WELL #: 02314-MW-18 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TOP OF CASING ELEVATION: 175.59

WATER LEVEL: 19.74 FT TOC

TERRY PROJECT: WINDSOR MART

SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: A. KNIGHT

START DATE: 11/5/2014 FINISH DATE: 11/5/2014

DRILLING COMPANY: TERRY EXPLORATION

DRILLER: JOHN S. KERR (CERT# 2128D)

DRILLING METHOD: HOLLOW STEM AUGER

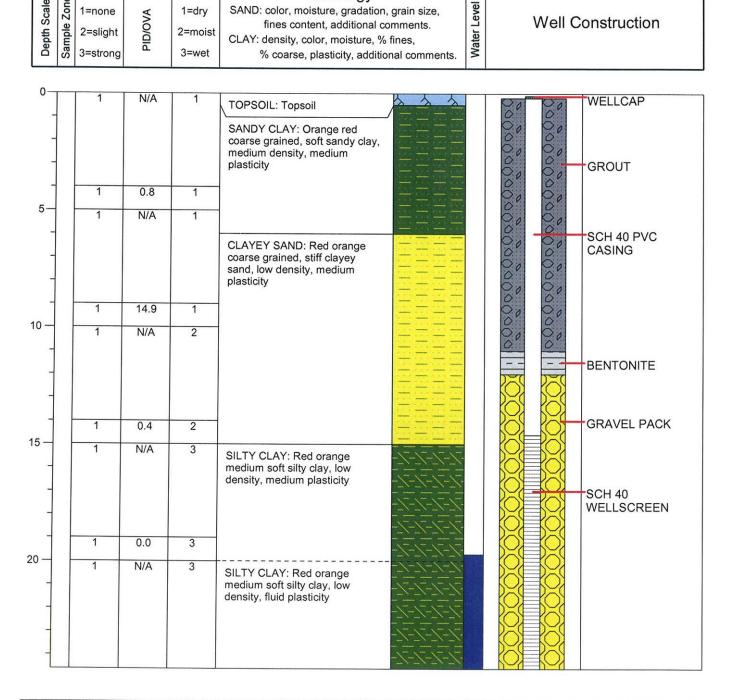
DEVELOPMENT: PUMP/SURGE Filter Interval 12-24.6 FT BGS

Casing Interval 0-14.6 FT TOC Bentonite Interval 11-12 FT BGS Filter Material SAND

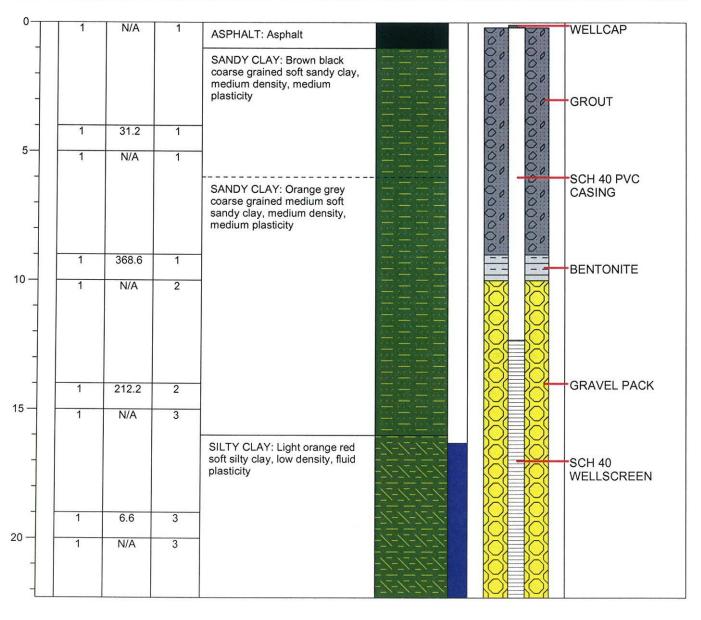
Screen Interval 14.6-24.6 FT TOC Grout Interval 0-11 FT BGS

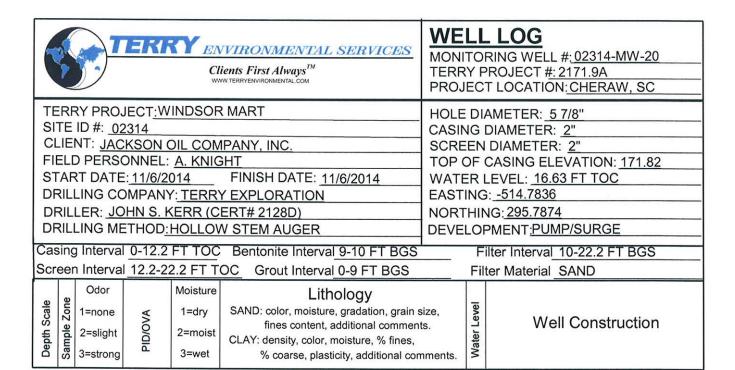
Odor Moisture Zone Scale 1=none 1=dry PID/OVA Sample Depth 2=slight 2=moist

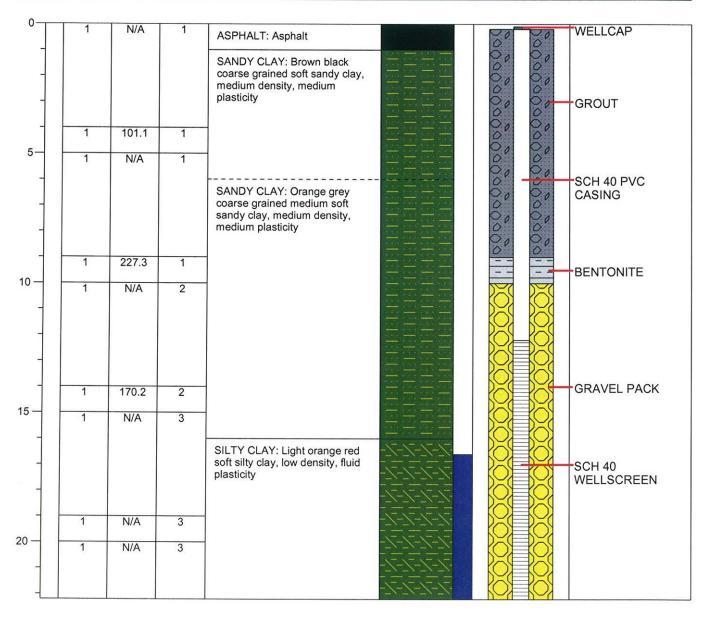
Lithology SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines,













Water Level

MONITORING WELL #: 02314-MW-21 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 173.97

WATER LEVEL: 16.55 FT TOC

EASTING: -605.1083

NORTHING: 215.1145

DEVELOPMENT: PUMP/SURGE

SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: A. KNIGHT

START DATE: 1/27/2015 FINISH DATE: 1/30/2015

DRILLING COMPANY: TERRY EXPLORATION

DRILLER: JOHN S. KERR (CERT# 2128D)

DRILLING METHOD: HOLLOW STEM AUGER

Casing Interval 0-13.7 FT TOC Bentonite Interval 10-11 FT BGS

Screen Interval 13.7-23.7 FT TOC Grout Interval 0-10 FT BGS

Filter Interval 11-23.7 FT BGS

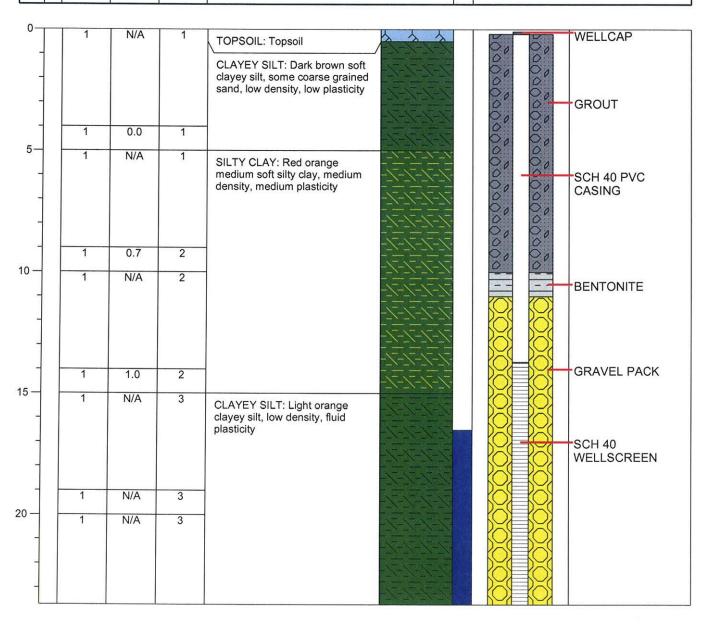
Filter Material SAND

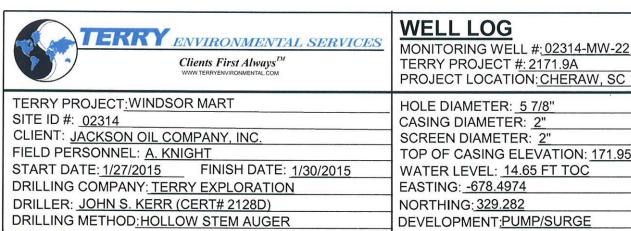
1007	a)	Odor		Moisture	
cale	Zone	1=none	<	1=dry	SAND: color, r
oth S	ple	2=slight	0/0	2=moist	fines of CLAY: density
Del	San	3=strong	급	3=wet	% coars

Lithology

SAND: color, moisture, gradation, grain size, fines content, additional comments.

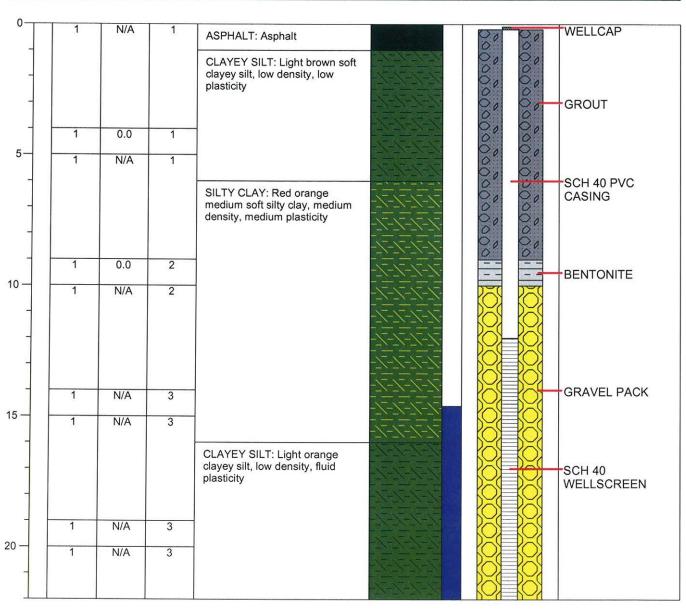
CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.





HOLE DIAMETER: 5 7/8" CASING DIAMETER: 2"	
SCREEN DIAMETER: 2"	
TOP OF CASING ELEVATION: 171.95	
WATER LEVEL: 14.65 FT TOC	
EASTING: <u>-678.4974</u>	
NORTHING: 329.282	
DEVELOPMENT:PUMP/SURGE	

1				FT TOC	Bentonite Interval 9-10 FT BGS Grout Interval 0-9 FT BGS		ilter Interval 10-22.0 FT BGS ter Material SAND
epth Scale	Sample Zone	Odor 1=none 2=slight 3=strong	PID/OVA	Moisture 1=dry 2=moist 3=wet	Lithology SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.	Water Level	Well Construction





MONITORING WELL #: 02314-MW-23 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

WELL LOG

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 171.03

WATER LEVEL: 13.72 FT TOC

EASTING: -601.0077

NORTHING: 320.6641

FIELD PERSONNEL: A. KNIGHT
START DATE: 1/27/2015 FINISH DATE: 1/30/2015
DRILLING COMPANY: TERRY EXPLORATION
DRILLER: JOHN S. KERR (CERT# 2128D)
DRILLING METHOD: HOLLOW STEM AUGER

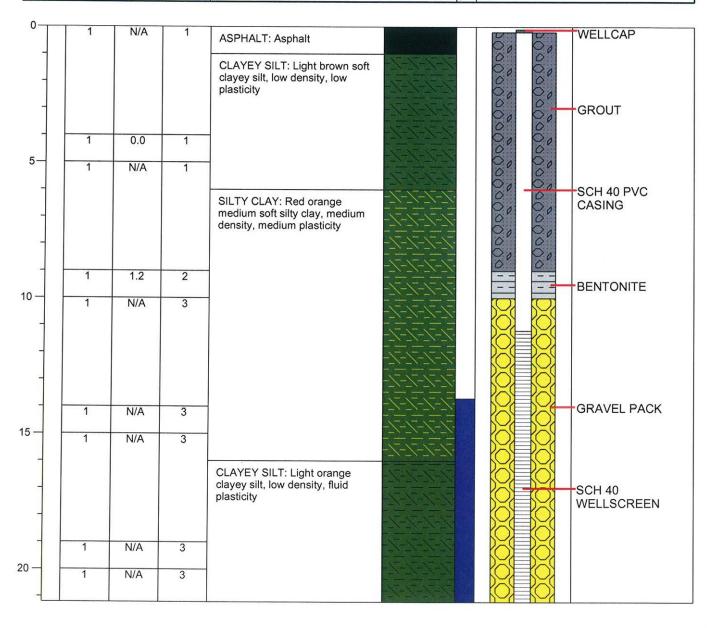
CLIENT: JACKSON OIL COMPANY, INC.

DEVELOPMENT: PUMP/SURGE

Casing Interval 0-11.2 FT TOC Bentonite Interval 9-10 FT BGS Filter Interval 10-21.2 FT BGS

Screen Interval 11.2-21.2 FT TOC Grout Interval 0-9 FT BGS Filter Material SAND

	Filter Material SAND
Odor Moisture Lithology 1=none 2=slight 3=strong 3=strong 3=strong Clay: density, color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, 3=wet % coarse, plasticity, additional comments.	Water Level Well Construction





MONITORING WELL #: 02314-MW-24 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART

SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: A. KNIGHT

START DATE: 1/28/2015 FINISH DATE: 1/30/2015

DRILLING COMPANY: TERRY EXPLORATION

DRILLER: JOHN S. KERR (CERT# 2128D)

DRILLING METHOD:HOLLOW STEM AUGER

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 169.78

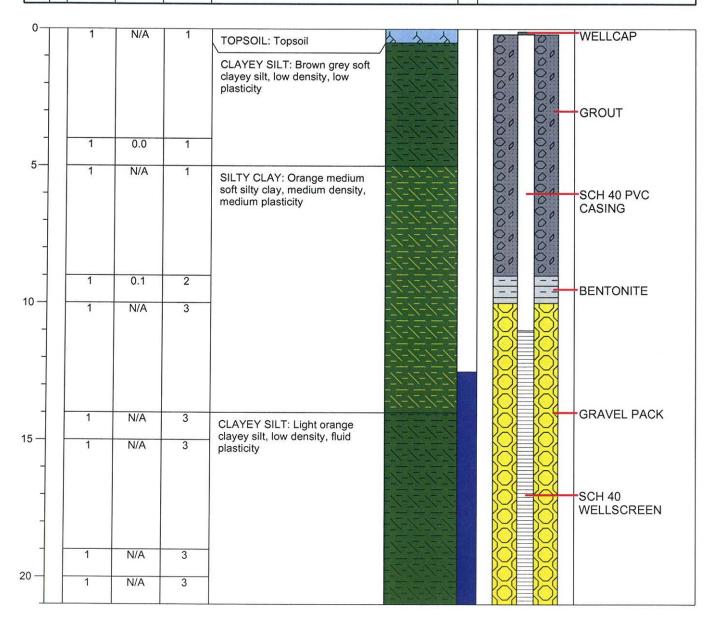
WATER LEVEL: 12.54 FT TOC

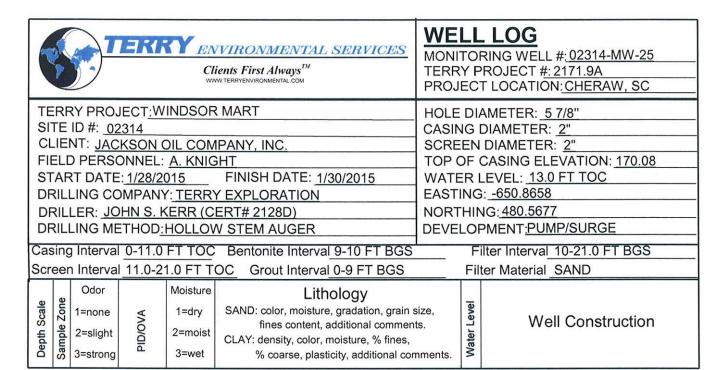
EASTING: -608.6159

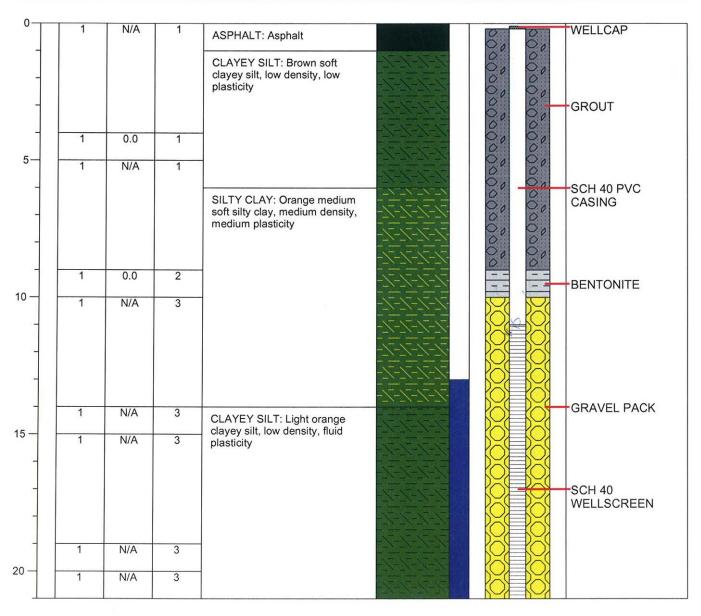
NORTHING: 425.0071

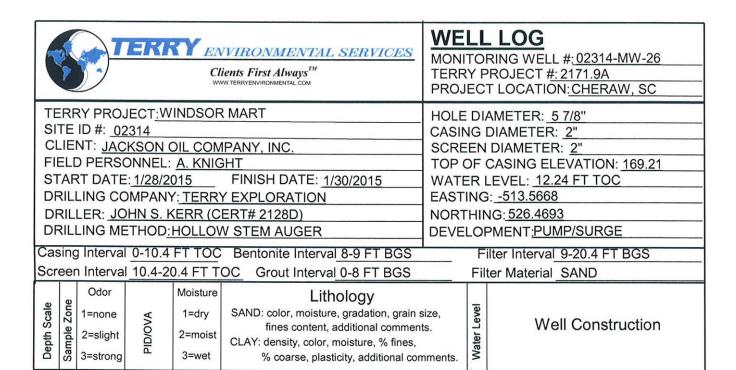
DEVELOPMENT: PUMP/SURGE

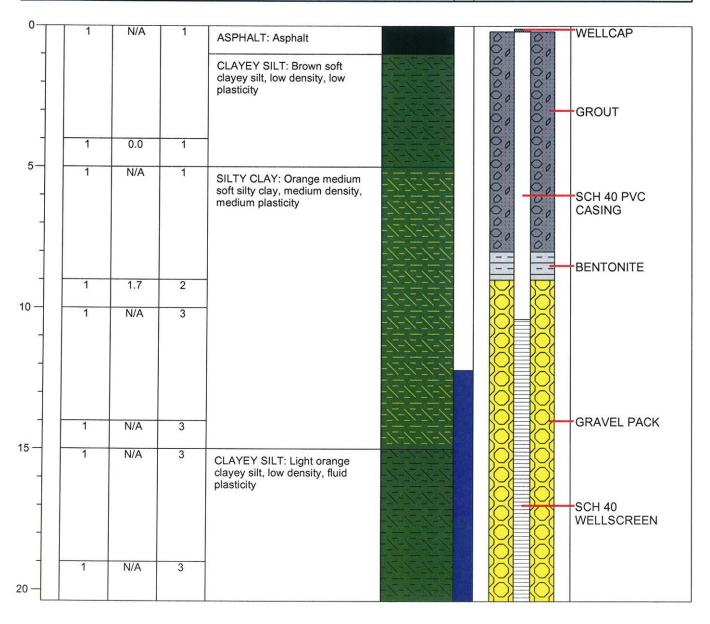
Casing Interval 0-11.0 FT TOC Bentonite Interval 9-10 FT BGS Screen Interval 11.0-21.0 FT TOC Grout Interval 0-9 FT BGS						Filter Interval 10-21.0 FT BGS Filter Material SAND		
Depth Scale Sample Zone		PID/OVA	Moisture 1=dry 2=moist 3=wet	Lithology SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.	Water Level	Well Construction		













WELL LOG

MONITORING WELL #: 02314-MW-27 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2"

SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 168.95

WATER LEVEL: 11.81 FT TOC

EASTING: -514.6162

NORTHING: 407.3356

CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: A. KNIGHT
START DATE: 1/28/2015 FINISH DATE: 1/30/2015
DRILLING COMPANY: TERRY EXPLORATION
DRILLER: JOHN S. KERR (CERT# 2128D)
DRILLING METHOD: HOLLOW STEM AUGER

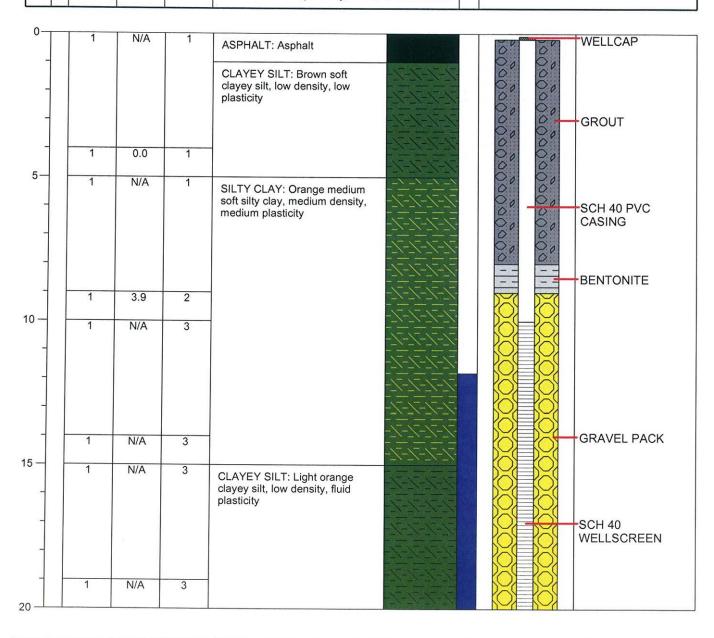
DEVELOPMENT: PUMP/SURGE

T BGS Filter Interval 9-20.0 FT BGS

Casing Interval 0-10.0 FT TOC Bentonite Interval 8-9 FT BGS Filter Interval 9-20.0 Screen Interval 10.0-20.0 FT TOC Grout Interval 0-8 FT BGS Filter Material SAND

epth Scale	a)	ne	Odor		Moisture	Lithology	7	
	a	Zon	1=none	*	1=dry	SAND: color, moisture, gradation, grain size,	evel	14/
	h S	mple	2=slight	Ó	2=moist	fines content, additional comments. CLAY: density, color, moisture, % fines,	-	ا ت ا
	ept		2-slight	Ö	2-1110130			
	۵	Sa	3=strong	Δ.	3=wet	% coarse, plasticity, additional comments.	\$	

Well Construction





WELL LOG

MONITORING WELL #: 02314-DW1 TERRY PROJECT #: 2171.9A

PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART

SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC.

FIELD PERSONNEL: J. KERR, A. KNIGHT

START DATE: 9/24/2014 FINISH DATE: 9/25/2014

DRILLING COMPANY: GEOLOGIC EXPLORATION

DRILLER: JOHNNY BURR (CERT # 01740C)

DRILLING METHOD: HOLLOW STEM AUGER/MUD ROTARY

HOLE DIAMETER: 12" CASING DIAMETER: 6"/2"

WATER LEVEL: 16.97 FT TOC

EASTING: <u>-332.2967</u>

NORTHING: 203.137
DEVELOPMENT: PUMPING/SURGING

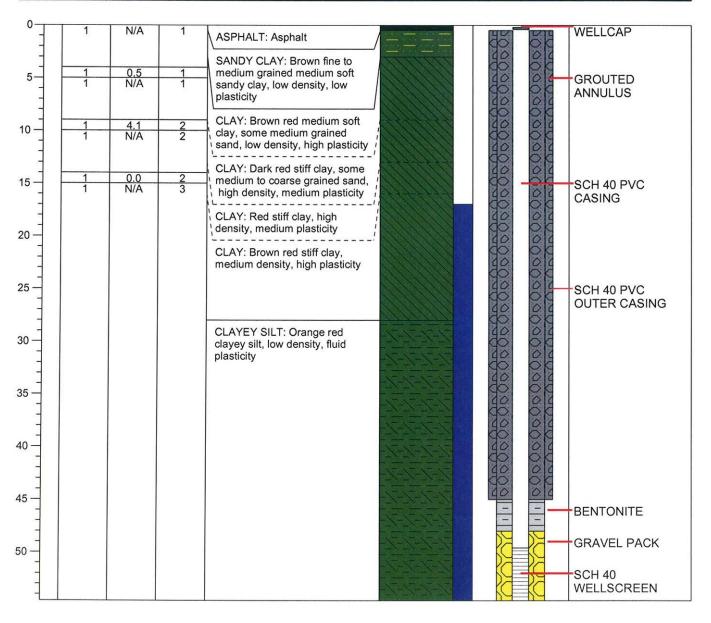
Casing Interval 0-49.6 FT TOC Bentonite Interval 45-48 FT BGS

Screen Interval 49.6-54.6 FT TOC Grout Interval 0-45 FT BGS

Filter Interval 48-54.6 FT BGS

Filter Material SAND

		Odor		Moisture	Lithology			
cale	Zone	1=none	<	≰ 1=dry	SAND: color, moisture, gradation, grain size,	N/oll Construction	Well Construction	
Depth Sc	Sample	2=slight	0/0	2=moist	fines content, additional comments. CLAY: density, color, moisture, % fines,	ater L	vveii Construction	
De	San	3=strong	础	3=wet	% coarse, plasticity, additional comments.	Wa		





Clients First Always™

WELL LOG

MONITORING WELL #: 02314-DW-2 TERRY PROJECT #: 2171.9A PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART

SITE ID #: 02314

CLIENT: JACKSON OIL COMPANY, INC

FIELD PERSONNEL: A. KNIGHT

START DATE: 1/29/2015 FINISH DATE: 1/30/2015

DRILLING COMPANY: TERRY EXPLORATION

DRILLER: JOHN S. KERR (CERT# 2128D)

DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 5 7/8"

CASING DIAMETER: 2" SCREEN DIAMETER: 2"

TOP OF CASING ELEVATION: 174.37

WATER LEVEL: 16.59 FT TOC

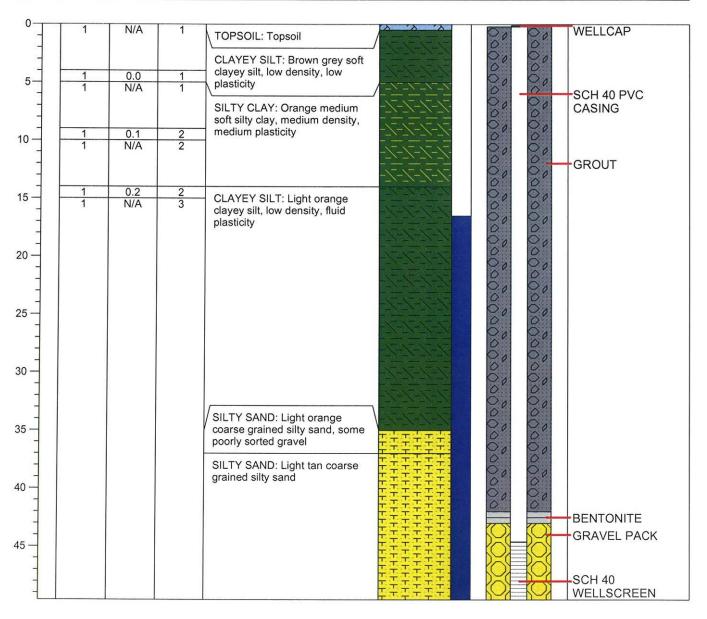
EASTING: -614.2586

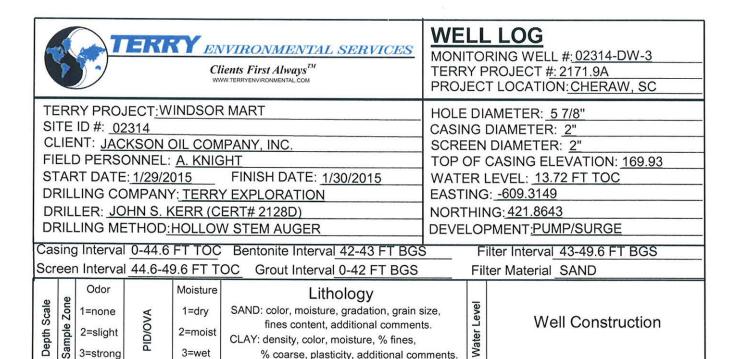
NORTHING: 213.5766

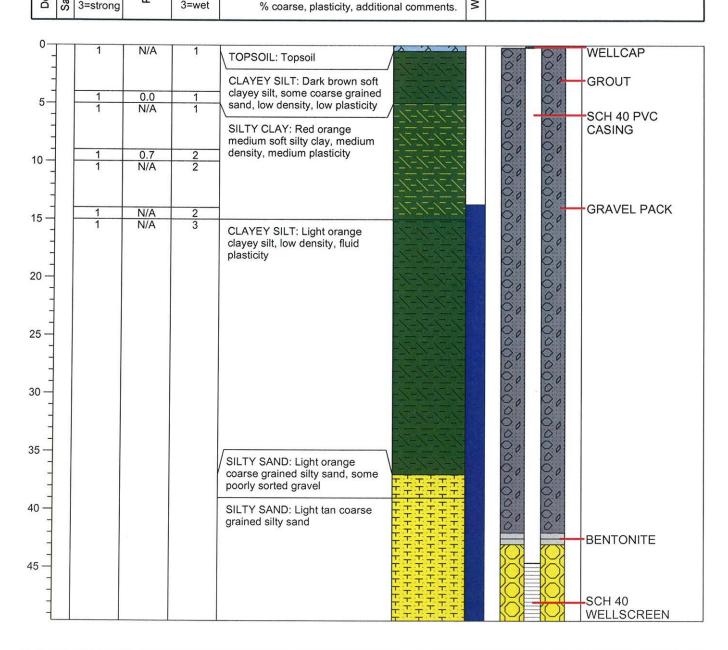
DEVELOPMENT:PUMP/SURGE

Casing Interval 0-44.6 FT TOC Bentonite Interval 42-43 FT BGS Filter Interval 43-49.6 FT BGS

ter Material SAND
Well Construction









PROMOTE PROTECT PROSPER 2000 Du			an otreet, Columbia, oc 2820 1-1700, (000) 080-4300
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER:
Name: JACKSON OIL COMPA	MY		UMW-25497
(last)		rst)	8. USE:
Address: PO BOX 968			
			Residential Public Supply Process
City: CHERAW State: SC Zip: 29520			☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Weil ☐ Monitor Well ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14
2. LOCATION OF WELL: SC C	OUNTY: CHE	STERFIELD	ft, Date Completed: 09/25/14
Name: WINDSOR MART			10. CASING: ☑ Threaded ☑ Welded
Street Address: 820 CHESTERI	ELECTA MAYA	,	Diam.: 2 INCH Height: Above Below
City: CHERAW	Zip: 29520		Type: IZ PVC II Galvanized Surface 11.
CHERAW	Z9520		Steel D Other Weight
Latitude: 34° 41' 49,29" Longitud	۸، ۳۸۵ <i>ב</i> εί ۸ α	421	2.0 in. to 10.0 ft, depth Drive Shoe? □ Yes □ No
Lantade: 34 41 49,29 Longado	6. 19" 33" 21	.43	in. to ft, depth
2. DUDI IO OVOTEM NAME			
3. PUBLIC SYSTEM NAME: PI			11. SCREEN; Type: SCH 40 PVC Diam.: 2 INCH
02314	MW-	2R	Slot/Gauge:010 Length: 10.0 FEET
4. ABANDONMENT: Yes	No		
Grouled Depth: from	ft to	£)	fl. and fl. USE SECOND SHEET
	*Thickness	7	Sleve Analysis 🔲 Yes (please enclose) 🖸 No
Formation Description	of	Depth to Bottom of	12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
. omaton bescription	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
ASPHALT		1	ft. after hrs. Pumping G.P.M.
ASPHALI	0.5	0.5	Pumping Test: ☐ Yes (please enclose) ☐ No
			Yield:
GRAVEL	0.5	1.0	
			14. WATER QUALITY
ORANGE SANDY SILTY CLAY	3.0	4.0	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
			Please enclose lab results.
TAN SANDY CLAY	16.0	20.0	15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
			Installed from <u>8.0</u> ft. to <u>20.0</u> ft. Effective size <u>1.43</u> Uniformity Coefficient <u>1.30</u>
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? ☑ Yes ☐ No
			☑ Neal Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From 0.0 ft. to 6.0 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: [I. direction
			Туре
}			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed
			Mfr, Name: Model No.:
			H.P Volts Length of drop pipeft, Capacity gpm
			TYPE: Submersible Jel (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER; JOHNNY BURR CERT, NO.: 01740
			1.72 C. COMMENTATION TO FILE
			المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية
			STATESVILLE, NC 28625
*Indicale Waler Bearing Zones			Talashana Na - 704 872 7707
		December 1	Telephone No.; 704-872-7686 Fax No.: 7()4-872-()248 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		COMPA	
5. REMARKS:			my direction and this report is true to the best of my knowledge and boliof.
			$A \cap A \cap A$
BENTONITE SEAL FROM 6.0 TO 8.0			Wart a man
FEET	1	2000	Signod: Date: 10/08/14
777 97777777 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Well Driller
6. TYPE: CI Mud Rotary	F3 ~		
□ Dug □ Air Rote		Sored	If D Level Driller, provide supervising driller's name:
*****		Oriven 🖁	
☐ Cable tool	AUGER		



PROMOTE PROTECT PROSPER		2000 D	an Street, Columbia, SC 29201-1708; (803) 898-4300			
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: 13 (W) 25 (07			
Name: JACKSON OIL COMPA	NY		UMW-25497			
(last)	(fir	rst)	8, USE:			
Address: PO BOX 968			☐ Residential ☐ Public Supply ☐ Process			
City Class and	~ = = = 0	0.500	☐ Irrigation ☐ Air Conditioning ☐ Emergency			
City: CHERAW State: SO	Zip: 2	9520	☐ Test Well ☐ Replacement			
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14			
2. LOCATION OF WELL: SC C		מייים מייים אי	4			
Name: WINDSOR MART	OUNT I, CEE	PIEKLIELD	The Completion.			
		_	10, CASING: Ø Threaded Welded Diam.: 2 INCH Height: Above Below			
Street Address: 820 CHESTERI		:				
City: CHERAW	^{Zip:} 29520		Type: 12 PVC			
Latitude: 34° 41' 49,11" Longitud	o: 700 EEL 00	4.30	2.0 in to 10.0 ft. depth Drive Shoe? Yes No			
	6. 79- 33-27	,44"	in, to1l. depth			
3. PUBLIC SYSTEM NAME: PI	JBLIC SYSTE	'AA MILAADED.	11. SCREEN;			
02314	MW-		Type: SCH 40 PVC Diam.: 2 INCH			
			Slot/Gauge:010 Length: 10.0 FEET			
4. ABANDONMENT: ☐ Yes 🖸	No		Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS			
			ft. andft. USE SECOND SHEET			
Grouted Depth: from	·		Sieve Analysis 🔲 Yes (please enclose) 🖸 No			
Formation Departmen	*Thickness		12. STATIC WATER LEVEL 15.0 It. below land surface after 24 hours			
Formation Description	of Stratum	Bottom of Stratum	13. PUMPING LEVEL Below Land Surface.			
ASPHALT			ft, after hrs. Pumping G.P.M.			
ASPHALI	0.5	0.5	Pumping Test: ☐ Yes (please enclose) ☐ No			
CDAME			Yield:			
GRAVEL	0.5	1.0	14. WATER QUALITY			
OD ANOT CANDA OF THE CITAL			Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No			
ORANGE SANDY SILTY CLAY	3.0	4.0	Please enclose lab results.			
TAN SANDY CLAY	14.0	20.0	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No			
TAN OAND I CLAT	16.0	20.0	Installed from 8.0 ft. to 20.0 ft.			
			Effective size 1.43 Uniformity Coefficient 1.30			
			16. WELL GROUTED? ☑ Yes ☐ No ☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other			
			Depth: From 0.0 ft. to 6.0 ft.			
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: (I, direction			
			Type			
			Well Disinfected ☐ Yes ☐ No Type: Amount:			
A Addition to the second of th			18. PUMP: Date installed: Not installed			
		7	Mfr. Name:Model No.:gpm H.PVoltsLength of drop pipeft. Capacitygpm			
			TYPE: Submersible Set (shallow) Turbine			
		9	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal			
			THE CONTRACTOR OF THE			
			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one) STATESVILLE, NC 28625			
		ŀ	OTATESY USES, INC. 20023			
*Indicate Water Bearing Zones			Telephone No.; 704-872-7686 Fax No.: 704-872-0248			
71	İ	ľ	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under			
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.			
5. REMARKS:		1	$\alpha + \beta + \beta = 0$			
BENTONITE SEAL FROM 6.0 TO 8.0			(Living J) und			
FEET		200	Signed: 10/08/14			
			Signed: Date: 10/08/14			
3. TYPE: CI Mud Rotary	□ e	orovi	MB 10 M			
☐ Dug ☐ Air Rota		riven	If D Level Driller, provide supervising driller's name:			
☐ Cable tool ☐ Other p						
I-						



PROMOTE PROTECT PROSPER	***	20002	31 01 00 100 100 100 100
WELL OWNER INFORMATION:			7. PERMIT NUMBER: //N/W/ 25/407
Name: JACKSON OIL COMPA	NY		UMW-25497
(last)	(fir	st)	8, USE:
Address: PO BOX 968			☐ Residential ☐ Public Supply ☐ Process
Ciby City and City Co	3 3th 0	0.500	☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: CHERAW State: SC	, 2ip: 2	9520	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14
	OUNTY: CHE	מינורו ויוויר א	· · · · · · · · · · · · · · · · · · ·
Name: WINDSOR MART	OURT LUFTE	9 LEKLIELD	20.0 ft. Date Completed: 09/25/14
Street Address: and Grandinan		_	10. CASING: ☑ Threaded ☑ Welded Diam.; ② INCH Height: Above ☐ Below
Street Address: 820 CHESTERF	JELD HWA	,	,
Cily: CHERAW	Zip: 29520		Type: 🗹 PVC 🗀 Galvanized Surfaceft.
College 249 311 47 COV 3 and the state of			2.0 in to 10.0 ft. depth Drive Shoe?
Latitude: 34° 41' 47,50" Longitude	≥: 79° 55' 27.	.01"	in, toft, depth
a publicavers			
	JBLIC SYSTE		11, SCREEN: Type: SCH 40 PVC Diam.; 2 INCH
02314	MW-	6	Slot/Gauge: .010 Longth: 10.0 FEET
4. ABANDONMENT: 🗌 Yes 🛭	No		Set Between: 10.0 (t. and 20.0 ft. NOTE: MULTIPLE SCREENS
			fl. andfl. USE SECOND SHEET
Grouted Depth: from	fl. lo	ft.	Sieve Analysis Yes (please enclose) No
	*Thickness	Depth to	12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
Formation Description	of	Bottom of	
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
ASPHALT	0.5	0.5	ft, afterhrs. PumpingG.P.M.
			Pumping Test: Tyes (please enclose) Di No
GRAVEL	0.5	1.0	Yield:
			14. WATER QUALITY
ORANGE SANDY SILTY CLAY	3.0	4.0	Chemical Analysis 🛘 Yes 🖾 No 💍 Bacterial Analysis 🔲 Yes 🗔 No
	3.0	113	Please enclose lab results.
TAN SANDY CLAY	16.0	20.0	15. ARTIFICIAL FILTER (filter pack) 🛮 Yes 🛘 No
	10.0		Installed from 8.0 ft. to 20.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? [2] Yes []] No
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From 0.0 ft. to 6.0 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: (I direction
			Type Grection
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed []
			Mfr. Name:Model No.; H.P. Volts Length of drop pipe ft. Capacity gpm
			TYPE: Submersible Set (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrilugal
	i		A CLC CACALAGERY CHE TO Y LYCH
		1	STATESVILLE, NC 28625
*Indicate Water Bearing Zones			Tolophona No 704 972 7696
251.00		1	Telephone No.; 704-872-7686 Fax No.: 704-872-0248 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		Î	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:			A 1
BENTONITE SEAL FROM 6.0 TO 8.0		4	Waterway of man
FEET FEET		Ĭ	Mar () LI avece
			Signed:
			Well Driller
3. TYPE: ☐ Mud Rotary ☐ Jetted	D 6	ored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rota		riven .	
☐ Cable tool ☑ Other A	UGER		
	···	L	

PROMOTE PROTECT PROSPER		2600 Bt	ull Street, Columbia, SC 29201-1708; (803) 898-4300
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: LINKING OCTOR
Name: JACKSON OIL COMPA	.ҮҮ.		UMW-25497
(last)	(fir	st)	8. USE;
Address: PO BOX 968			☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC	i žine i	ດຮວດ	☐ Irrigation ☐ Air Conditioning ☐ Emergency
SOUTH CHERAW Blate. SC	, ziji. Z	9320	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14
	OUNTY: CHE	STERFIELD	20.0 ft. Date Completed: 09/25/14
Name: WINDSOR MART	01.2	O TOTAL TEMP	10. CASING: 12 Threaded 12 Welded
Street Address: 820 CHESTERI	ZWELCEER	,	Diam.: 2 INCH Height: Above Below
City: CHERAW	Zip: 29520		Type: 🛭 PVC 🖂 Galvanized Surface
	27520		Steel Other Weight
Latitude: 34° 41' 49,11" Longitude	∍: 79° 55' 27	.43"	2.0 in. to 10.0 ft. depth Drive Shoe? ☐ Yes ☐ No
			in, toft. depth
3. PUBLIC SYSTEM NAME: PL	JBLIC SYSTE	M NUMBER:	11. SCREEN:
02314	MW-	7	Type: SCH 40 PVC Diam.: 2 INCH
4. ABANDONMENT: ☐ Yes ☑	No		Slot/Gauge:010 Length:10.0 FEET
			Set Between: 10.0 ft, and 20.0 ft. NOTE: MULTIPLE SCREENS ft, andft. USE SECOND SHEET
Grouted Depth: from	ft. to	ft.	ft, andft. USE SECOND SHEET Sieve Analysis
	*Thickness	Depth to	12. STATIC WATER LEVEL 15.0 (t. below land surface after 24 hours
Formation Description	of	Botlom of	
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
ASPHALT	0.5	0.5	ft. after hrs. Pumping G.P.M.
			Pumping Test: 🗇 Yes (please enclose) 📮 No Yield:
GRAVEL	0.5	1.0	
			14. WATER QUALITY
ORANGE SANDY SILTY CLAY	3.0	4.0	Chemical Analysis ☐ Yes ☐ No Bacteriał Analysis ☐ Yes ☐ No Please enclose lab results.
M111011M11 OF 121			
TAN SANDY CLAY	16.0	20.0	15. ARTIFICIAL FILTER (filler pack) $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
			Installed from 8.0 ft. to 20.0 ft. Effective size 1.43 Uniformity Coefficient 1.30
	ĺ		
			16. WELL GROUTED? ☑ Yes ☐ No ☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From 0.0 ft. to 6.0 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft, direction
			Type ollection
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date Installed: Not installed: []
			Mfr. Name: Model No.:
			H.P. Volts Length of drop pipe ft. Capacity gpm
		I	TYPE: Submersible Jet (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugat
		Î	19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740
	······································		Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
Transport			STATESVILLE, NC 28625
Stadionto Mator Donnie - 7			
*Indicate Water Bearing Zones		Ĺ	Telephone No., 704-872-7686 Fax No.: 704-872-0248
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:			my direction and this report is true to the best of my knowledge and belief. $oldsymbol{\mathcal{R}}$
BENTONITE SEAL FROM 6.0 TO 8.0			OI I have
FEET FEET FROM U.S. TO 8.0			SAMPE TO SUM
	İ		Signed:
			(graft Onliter
5. TYPE: Cl Mud Rolary	□ 8	12	If D Level Oriller, provide supervising driller's name:
☐ Oug ☐ Air Rota		riven	-
☐ Cable tool ☐ Other A	UGER		



PROMOTE PROTECT PROSPER			, , , , , , , , , , , , , , , , , , , ,
1. WELL OWNER INFORMATION:	NIV		7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL COMPAT	NY (fir:	st)	
Address: PO BOX 968	,,,,,	- 17	8. USE:
			☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: CHERAW State: SC	Zip: 25	9520	☐ Test Well ☐ Replacement ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14
2. LOCATION OF WELL: SC CO	OUNTY: CHE	STERFIELD	ft. Date Completed; 09/25/14
Name: WINDSOR MART		i	10. CASING: A Threaded
Street Address: 820 CHESTERF	IELD HWY		Diam.: 2 INCH Height: Above Below
City: CHERAW	Zip: 29520		Type: ☑ PVC □ Galvanized Surfaceft. □ Steel □ Other Weightfb.//ft.
Lalitudo 240 411 40 559 Lac-104-	. 700 551 05	0.1.0	Steel \Box Other Weight $\underline{}$ Weight $\underline{}$ No $\underline{}$ In, to $\underline{}$ 10.0 It. depth $\underline{}$ Drive Shoe? \Box Yes \Box No
Lalitude: 34° 41' 49.55" Longilude	19° 55' 27.	21"	in, tofl, depth
	BLIC SYSTE	M NUMBER:	11. SCREEN:
02314	MW-	}	Type: SCH 40 PVC Diam.: 2 INCH Stot/Gauge: .010 Length: 10.0 FEET
4. ABANDONMENT: ☐ Yes ☑	No		Set Between: 10.0 (I. and 20.0 (I. NOTE: MULTIPLE SCREENS
0 1 10 11 1			
Grouted Depth: fromi	t. to		Sieve Analysis ☐ Yes (please enclose) ☑ No
Formation Description	*Thickness of	Depth to Bottom of	12. STATIC WATER LEVEL 15.0 It. below land surface after 24 hours
. Stration & Society Hori	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
ASPHALT	0.5	0.5	ft. afterhrs. PumpingG.P.M.
			Pumping Test: ☐ Yes (please enclose) ☐ No Viold:
GRAVEL	0.5	1.0	Yicid:
07.1107.01177.01			14. WALER QUALITY Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
ORANGE SANDY SILTY CLAY	3.0	4.0	Please enclose lab results.
TAN SANDY CLAY	16.0	20.0	15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
			Installed from 8.0 ft. to 20.0 ft. Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? ☑ Yes ☑ No ☑ Neat Cement ☐ Bentonite ☐ Bentonite ☐ Other
			Depth: From 0.0 ft. to 6.0 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: (I, direction
			Туре
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed []
			Mfr. Name: Model No.: H.P Volts Length of drop pipeft. Capacity gpm
			TYPE: Submersible
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740
			Address: (Print) 1.76 COMMERCE BLVD Level: A B C D (circle one)
			STATESVILLE, NC 28625
Indicate Water Bearing Zones			Telephone No.; 704-872-7686 Fax No.: 704-872-0248
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:	***************************************		my direction and this report is true to the best of my knowledge and belief.
BENTONITE SEAL FROM 6.0 TO 8.0			Ohned Stranger
FEET BEAT FROM 6.0 TO 8.0			10/08/14
			Signed: Date: 10/00/14
S. TYPE: CI Mud Rotary	 П г	lored	(C) the Difference of the second of the seco
Dug Air Rota		riven	If D Level Dritter, provide supervising driller's name:
☐ Cable tool ☐ Other 万	-		



PROMOTE PROTECT PROSPER		2000 100	an officet, Octambia, OO 20201-1100, (000) 000 4000
WELL OWNER INFORMATION:			7. PERMIT NUMBER: LINAWY 25407
Name: JACKSON OIL COMPA	NY		7. PERWIT NOMBER. UMW-25497
(last)	(fir	st)	8. USE:
Address: PO BOX 968			□ Residential □ Public Supply □ Process
		0.50	☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: CHERAW State: SC	; Zip: 2	9520	☐ Test Well ☐ Monitor Well ☐ Replacement
Tologhouse 18/selv			9. WELL DEPTH (completed) Date Started: 09/25/14
Telephone: Work: 2. LOCATION OF WELL: SC C	Home:		
	OUNTY: CHE	STERIFIELD	20.0 ft. Date Completed; 09/25/14
Name: WINDSOR MART			10. CASING: A Threaded Welded
Street Address: 820 CHESTERF	TELD HWY	•	Dlam.: 2 INCH Height: Above Below □
City: CHERAW	Zip: 29520		Type: 🛛 PVC 🗖 Galvanized Surfaceft.
			☐ Steel ☐ Other Weight b.//tt. 2.0 in. to 10.0 ft. depth Drive Shoe? ☐ Yes ☐ No
Latilude: 34° 41' 49,55" Longitude	≆ 79° 55' 27.	21"	
			in. toft. depth
	IBLIC SYSTE	M NUMBER:	11. SCREEN: 2 INCH
02314	MW-9	9	Type: SCH 40 PVC Diam.: 2 INCH
4. ABANDONMENT: Yes 12	No		Siol/Gauge:
· · · · · · · · · · · · · · · · · ·			
Grouled Depth: from	ft. to	fi	ft. andft. USE SECOND SHEET
	*Thickness		Sieve Analysis ☐ Yes (please enclose) ☑ No
Formation Description	10	Bottom of	12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
,	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
ASPHALT	0.5	0.5	ft. after hrs. Pumping G.P.M.
	0.5	0.5	Pumping Test: 🛘 Yes (please enclose) 🗖 No
GRAVEL	0.5	1.0	Yleid:
	0.5	1.0	14. WATER QUALITY
ORANGE SANDY SILTY CLAY	3.0	4.0	Chemical Analysis ☐ Yos ☐ No Bacterial Analysis ☐ Yes ☐ No
Old II GO O. A. I. S. I.	3.0	-T.O	Please enclose lab results.
TAN SANDY CLAY	16.0	20.0	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
	10.0	20.0	Installed from 8.0 ft. to 20.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? [7] Yes [] No
			☑ Neal Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From 0.0 ft. to 6.0 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
			Type To all ection
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed [
		ļ	Mfr. Name: Model No.:
	VNITE - 1		H.P. Volts Length of drop pipe ft. Capacity gpm TYPE: Submersible Jet (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740 Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
		Į	STATESVILLE, NC 28625
*Indicate Water Bearing Zones		·	Telephone No 704 972 7696 5 5 5 10 No 704 972 7049
			Telephone No.; 704-872-7686 Fax No.: 704-872-0248 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		Ì	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:			A A STANDARD OF THE PARTY OF TH
BENTONITE SEAL FROM 6,0 TO 8.0		900	O hand the uns I
FEET FEET			WALL CAN
]		Signed:
			₩ell Driller
6. TYPE: ☐ Mud Rotary ☐ Jetted		lored	If D Level Driller, provide supervising driller's name:
□ Dug □ Air Rota	•	riven	
☐ Cable tool ☐ Other p	UGER		



PROMOTE PROTECT PROSPER	-11		
WELL OWNER INFORMATION:			7. PERMIT NUMBER: UM W-25497
Name: JACKSON OIL COMPA			ON W-23497
(last)	(fir	st)	8. USE:
Address: PO BOX 968			☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC	7 7io: 9	0520	☐ Irrigation ☐ Air Conditioning ☐ Emergency
ONT. CITISION W Oldie, 15C	, Zip. Z	9320	☐ Test Well ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14
	OUNTY: CHE	C rain dary	
Name: WINDSOR MART	oom neme	O F GWU HSEAD	20.0 ft. Date Completed; 09/25/14
Street Address: one currament	NO 6 1111/2	,	10. CASING: ☑ Threaded ☑ Welded Dlam.: 2 INCH Height: Above ☐ Below ☐
Street Address: 820 CHESTERF	TELD HWY	,	
City: CHERAW	Zip: 29520		Type: ☑ PVC ☐ Galvanized Surfaceft,
Latitudo: 240 431 47 708 Leastud	- 700 651 66	f (1)	2.0 in to 10.0 ft. depth Drive Shoe? Yes INO
Lalilude: 34° 41' 47.72" Longitude	a. 19° 33' 22	.44"	in. toft. depth
3. PUBLIC SYSTEM NAME: Pt	ID/ 10 OYOM		11. SCREEN:
02314		M NUMBER:	Type: SCH 40 PVC Diam.; 2 INCH
	MW-	10	Slot/Gauge: .010 Length: 10.0 PEET
4. ABANDONMENT: ☐ Yes 🖸	No		Set Between: 10.0 (ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
Grouted Depth: from	ft. lo	ft,	Sieve Analysis Yes (please enclose) No
	*Thickness	Depth to	12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
Formation Description	of	Bottom of	
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
ASPHALT	0.5	0.5	ft. after hrs. Pumping G.P.M.
			Pumping Test: ☐ Yes (please enclose) ☐ No
GRAVEL	0.5	1.0	Yield:
			14. WATER QUALITY
ORANGE SANDY SILTY CLAY	3.0	4.0	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
			Please enclose lab results.
TAN SANDY CLAY	16.0	20.0	15. ARTIFICIAL FILTER (filler pack) ☑ Yes ☐ No
	10.0		Installed from 8.0 ft. to 20.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? [7] Yes [] No
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From <u>0.0</u> ft. to <u>6.0</u> ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: (I direction
			Type
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed
		Î	Mfr. Name: Model No.: ft. Capacity gpm
A STANA distance of the standard of the standa			TYPE: Submersible Set (shallow) Turbine
		1	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740 Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
İ			STATESVILLE, NC 28625
*Indicate Water Bearing Zones		•	Telephone No. 704 972 7696 For No. 704 972 0249
7,3		į	Telephone No.; 704-872-7686 Fax No.: 704-872-0248 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		5	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:			A A
BENTONITE SEAL FROM 6.0 TO 8.0 FEET			A land the same of
			HANT TIME
			Signed:
		~	Weif Dritter
3. TYPE: Mud Rotary Jetted		ored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rote	•	riven	
☐ Cable tool ☑ Other ∧	UGER	9	
	····	1	

DHE C

Water Well Record Bureau of Water

PROMOTE PROTECT PROSPER			an one of columna, or 2020 ; 1700, (000) 000-4000
WELL OWNER INFORMATION: Name: JACKSON OIL COMPA	A NIX/		7. PERMIT NUMBER: UMW-25497
(last)		ral)	
Address: PO BOX 968	/11	rsl)	8. USE:
10 80% 90%			☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: S	C Zip: 2	9520	☐ Irrigation ☐ Air Conditioning ☐ Emergency
j			☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14
2. LOCATION OF WELL: SC	COUNTA: CHE	STERFIELD	
Name: WINDSOR MART			10. CASING: 12 Threaded
Street Address: 820 CHESTER	FIELD HWY	.	Diam.: 2 INCH Height: Above Below
City: CHERAW	Zip: 29520		Type: 🛛 PVC 🗎 Galvanized Surfaceft.
			Steel Other Weight Ib.fft.
Latitude: 34° 41' 48.21" Longitud	ie: 79° 55' 27	.12"	in, toft, depth Drive Shoe?
2 DISDLIC OVERTINAL NAME:	115/15 51/15		
3. PUBLIC SYSTEM NAME: P	UBLIC SYSTE		11. SCREEN: Type: SCH 40 PVC Diam.: 2 INCH
	MW-	11	Slot/Gauge:010 Length: 10.0 FIEET
4. ABANDONMENT: Yes	l No		Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
			ft. andft. USE SECOND SHEET
Grouted Depth: from			Sieve Analysis ☐ Yes (please enclose) ☑ No
Formation Description	*Thickness of		12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
TOTALION Description	Stratum	Bottom of Stratum	13. PUMPING LEVEL Below Land Surface.
BLACK TOPSOIL			ft. afterhrs. PumpingG.P.M.
DEFICIC FOLDOLD	1.0	1.0	Pumping Test: ☐ Yes (please enclose) ☐ No
ORANGE SANDY CLAY	3.0	4.0	Yield:
0.00.00.00.00.00.00.00.00.00.00.00.00.0	3.0	14.0	14. WATER QUALITY
TAN SANDY CLAY	16.0	20.0	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	10.0	20.0	Please enclose lab results.
			15. ARTIFICIAL FILTER (filler pack) D Yes D No
			installed from 8.0 ft, to 20.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
	 		16. WELL GROUTED? ☑ Yes ☐ No
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
	-		Depth: From <u>0.0</u> ft. to <u>6.0</u> ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
			Type
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed 📮
			Mfr. Name: Model No.:
			H.PVoltsLength of drop pipeft. Capacitygpm TYPE: Submersible Jet (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			TOYAN DIVINING
			100 COMMENCE WATER
			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one) STATESVILLE, NC 28625
			WILLIAM TEMMINETS DUVING
*Indicate Water Bearing Zones		1	Telephone No.; 704-872-7686 Fax No.: 704-872-0248
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:			my direction and this report is true to the best of my knowledge and belief.
BENTONITE SEAL FROM 6.0 TO 8.0 FEET			(later of) un
			Signed:
			Wolf Stater
6. TYPE: Cl Mud Rotary Cl Jetted		fored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rot	•	riven	.,
☐ Cable tool ② Other ;	AUGER	- Contraction of the Contraction	



PROMOTE PROTECT PROSPER	***************************************		ou out, obtaining, ob Lozot 17,00, (000) 000 1000
WELLOWNER INFORMATION: Name: JACKSON OIL COMPA	NISZ		7. PERMIT NUMBER: UMW-25497
(iasi)		st)	
Address: PO BOX 968	ζ	~,,	8. USE:
City: CHERAW State: S(Zip; 2	9520	☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency
~			9. WELL DEPTH (completed) Date Started: 09/25/14
Telephone: Work: 2. LOCATION OF WELL: SC C	Home:		
Name: WINDSOR MART	OOMARCHE	STERIFIELD	
Street Address: 820 CHESTERI	PIER EN LINEA	,	10. CASING: ☑ Threaded ☑ Welded Diam.: ② INCH Height: Above ☐ Below ☐
Cily: CHERAW	Zip: 29520		Diam.: 2 INCFI Height: Above Below Type: ☑ PVC □ Galvanized Surfaceft.
> CHERAW	29520		Steel G Other Weight th //
Lalilude: 34° 41' 49.88" Longilud	e: 79° 55† 27	.21"	in, toft. depth
3. PUBLIC SYSTEM NAME: PI	JBLIC SYSTE	M NUMBER:	11. SCREEN:
02314	MW-	12	Type: SCH 40 PVC Diam.: 2 INCH
4. ABANDONMENT: ☐ Yes 🖸	No		Slot/Gauge:010 Length: 10.0 FEET Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
Grouled Depth: from	ft to	fi	fl. andft. USE SECOND SHEET
	*Thickness	····	Sieve Analysis ☐ Yes (please enclose) ☑ No
Formation Description	of	Bottom of	12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
BLACK TOPSOIL	1.0	1.0	ft, afterhrs. PumpingG.P.M. Pumping Tost: ☐ Yes (pfease enclose) ☐ No
ODANGE GANDON OF LA			Yield:
ORANGE SANDY CLAY	3.0	4.0	14. WATER QUALITY
TAN SANDY CLAY	16.0	20.0	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No Please enclose lab results.
			15. ARTIFICIAL FILTER (filler pack) 🖸 Yes 🗋 No
			Installed from 8.0 ft. to 20.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? ☑ Yes 및 No
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From <u>0.0</u> ft. to <u>6.0</u> ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
			Type
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed []
			Mfr. Name: Model No.: ft. Capacity gpm
			TYPE: Submersible Set (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740
			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
			STATESVILLE, NC 28625
Indicate Water Bearing Zones			Telephone No.; 704-872-7686 Fax No.: 704-872-0248
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
REMARKS:			my direction and this report is true to the best of my knowledge and belief.
BENTONITE SEAL FROM 6.0 TO 8.0 FEET			Signed:
		<u>-</u>	West Oriller
. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Dug ☐ Air Rota ☐ Cable tool ☐ Other ☐	•	ored riven	If D Level Driller, provide supervising driller's name:
		8	



Water Well Record

Bureau of Water 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

PROMOTE PROTECT PROSPER		2600 Bt	Jii Street, Columbia, SC 29201-1708; (803) 898-4300
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: 133 (33) 05 (07)
Name: JACKSON OIL COMPANY			UMW-25497
(last) (first)			8. USE:
Address: PO BOX 968			☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC Zip: 29520		0.500	Thrigglian This Conditioning The Empression
City: CHERAW State: S(J Zip: 2	9520	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home;			9. WELL DEPTH (completed) Date Started: 09/25/14
2. LOCATION OF WELL: SC COUNTY: CHESTERFIELD			
Name: WINDSOR MART	Out L.CHE	STERRIELD	300000
			10, CASING: Ø Threaded Ø Welded Diam.: 2 INCH Height: Above Below
Street Address: 820 CHESTERE	TELD HWY	·	· · · · · · · · · · · · · · · · · · ·
City: CHERAW	Zip: 29520		Type: ☑ PVC ☑ Galvanized Surfaceft. ☐ Steel ☑ Other Weighttb.//k.
Latitudo: 249 411 49 2411 Langitud	700 50 00	4.431	2.0 in. to 10.0 ft. depth Drive Shoe? ☐ Yes ☐ No
Latitude: 34° 41' 48,21" Longitude	e: 79° 55' 22	.44"	in to it. depth in. to it. depth
3. PUBLIC SYSTEM NAME: PL	IDI IO OVOTE	THE LULIANCE	11. SCREEN:
02314	JBLIC SYSTE		Type: SCH 40 PVC Diam.: 2 INCH
	MW-	1.3	Slot/Gauge: .010 Length: 10.0 FEET
4. ABANDONMENT: Yes	No		Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
			ft. andft. USE SECOND SHEET
Grouted Depth: from			Sieve Analysis 🔲 Yes (please enclose) 🗵 No
	*Thickness		12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
Formation Description	of Stratum	Bollom of	13. PUMPING LEVEL Below Land Surface.
	Guatum	Stratum	ft. after hrs. Pumping G.P.M.
ASPHALT	0.5	0.5	Pumping Test: Yes (please enclose) No
			Yield:
GRAVEL	0.5	1.0	14. WATER QUALITY
			Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
ORANGE SANDY SILTY CLAY	3.0	4.0	Please enclose lab results.
The state of the s			
TAN SANDY CLAY	16.0	20.0	15. ARTIFICIAL FILTER (filter pack) \square Yes \square No Installed from 8.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? ☑ Yes ☑ No
			□ Neat Cement □ Bentonite □ Bentonite/Cement □ Other
			Depth: From <u>0.0</u> (t. to <u>6.0</u> (t.
		į "	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
			Туре
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed
			Mfr. Name: Model No.:
			H.P Volts Length of drop pipeft. Capacity gpm
			TYPE: Submersible Jet (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: JOHNNY BURR CERT, NO.: 01740
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
			STATESVILLE, NC 28625
*Indicale Water Bearing Zones			Talashana No. 704 970 7666 Eav. No. 704 970 0049
			Telephone No.; 704-872-7686 Fax No.: 704-872-0248 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:			0 1 /
BENTONITE SEAL FROM 6.0 TO 8.0			Aldred Alman
FEET			Man of and all the services
			Signed:
		·····	Well Driller
6. TYPE: CI Mud Rotary			KO 1 15 W 1
☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER			If D Level Driller, provide supervising driller's name:
	ary 🗆 🗀	1	If D Level Drifler, provide supervising drifler's name:



PROMOTE PROTECT PROSPER		2000 DC	in officet, Columbia, CO 20201-11 00, (000) 000 4000
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL, COMPANY			UIVI W -23497
(last) (first)			8. USE:
Address: PO BOX 968			☐ Residential ☐ Public Supply ☐ Process
08m (11mm 11)		acaa	☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: CHERAW State: SC Zip: 29520		9520	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 09/25/14
The state of the s	DUNTY: CHE	erenerer n	20.0
Name: WINDSOR MART	JON 11. CHE	O LEKCHELD	20.0 ft. Date Completed: 09/25/14 10. CASING:
			Diam.: 2 INCH Height: Above Below
Street Address: 820 CHESTERF	TELD HWY		Type: PVC Galvanized Surface ft.
City: CHERAW	Zip: 29520		Steel Cother Weight
Latitude: 34° 41' 49,55" Longitude	v 200 cci 02	0.18	2.0 in to 10.0 ft. depth Drive Shoe? Yes No
Landoe, 34 41 49,33 Congride	5. 19° 33° Z1.	.21"	in. to
3. PUBLIC SYSTEM NAME: PL	IBLIC SYSTE	M AILGMANN.	11. SCREEN:
02314	MW.		Type: SCI 40 PVC Diam.: 2 INCH
		14	Stot/Gauge: .010 Length: 10.0 FEET
4. ABANDONMENT: Yes 🗹	No		Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
			tt. andft. USE SECOND SHEET
Grouted Depth: from			Sieve Analysis 🔲 Yes (pieasc enclose) 🗹 No
	*Thickness		12, STATIC WATER LEVEL 15.0 It. below land surface after 24 hours
Formation Description	of	Bottom of	13. PUMPING LEVEL Below Land Surface.
	Stratum	Stratum	ft, after hrs. Pumping G.P.M.
BLACK TOPSOIL	1.0	1.0	Pumping Test: ☐ Yes (please enclose) ☐ No
			Yield:
ORANGE SANDY CLAY	3.0	4.0	14. WATER QUALITY
			14. WALER QUALITY Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
TAN SANDY CLAY	16.0	20.0	Please enclose lab results.
			15, ARTIFICIAL FILTER (filler pack) Yes No
			Installed from 8.0 ft. to 20.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? [7] Yes 📵 No
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From 0.0 ft. to 6.0 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: 11. direction
			Туре
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed
			Model No.:
			H.P Volts Length of drop pipe ft. Capacity gpm
			TYPE: Submersible Jet (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740
			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
		i	STATESVILLE, NC 28625
#1 . P. 1 . \Alba . D			
*Indicate Water Bearing Zones			Telephone No.; 704-872-7686 Fax No.: 704-872-0248
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:			my direction and this report is true to the best of my knowledge and belief.
			1. hard It was
BENTONITE SEAL FROM 6.0 TO 8.0 FEET			May of War
			Signed:
-		<u>-</u>	Well Driller
6. TYPE: 🖾 Mud Rotary 🗀 Jetted	0	Bored	If D Level Driller, provide supervising driller's name:
□ Dug □ Air Rotary □ Driven			mout he a make man A mount a mount
☐ Cable tool ☐ Other ☐	AUGER	KERNORE	
-		{	



PROMOTE PROTECT PROSPER			
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL COMPANY (last) (first)			VIII 45 07
Address: PO BOX 968		51)	8. USE:
			Residential Public Supply Process
City: CHERAW State: SC	Zip: 2	9520	☐ trrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Replacement
Telephone: Work: Home:			9. WELL DEPTH (completed) Date Started: 09/25/14
2. LOCATION OF WELL: SC C	DUNTY: CHE	STERFIELD	
Name: WINDSOR MART			10. CASING: A Threaded
Street Address: 820 CHESTERF	TELD HWY	,	Diam.: 2 INCH Height: Above ☐ 3elow ☐
City: CHERAW	Zip: 29520		Type: 🗹 PVC 🗀 Galvanized Surfaceft.
			Steel Gother Weight
Latitude: 34° 41' 49,51" Longitude	n: 79° 55' 27.	28"	in. toft. depth Drive Shoe? ☐ Yes ☐ Noin. toft. depth
3. PUBLIC SYSTEM NAME: PL	BLIC SYSTE	M NUMBER:	11. SCREEN:
02314	MW-	15	Type: SCH 40 PVC Diam.: 2 INCH Stot/Gauge: .010 Length: 10.0 FEET
4. ABANDONMENT: ☐ Yes 幻	No		Set Between: 10.0 (I. and 20.0 II. NOTE: MULTIPLE SCREENS
			fl. andfl. USE SECOND SHEET
Grouled Depth: from	· · · · · · · · · · · · · · · · · · ·	·	Sieve Analysis 🔲 Yes (please enclose) 🖸 No
Formation Description	*Thickness	Depth to	12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours
Tomator Sescription	of Stratum	Bollom of Stratum	13. PUMPING LEVEL Below Land Surface.
ASPHALT	0.5	0.5	fl. after hrs. Pumping G.P.M.
, , , , , , , , , , , , , , , , , , , ,	0.5	0.0	Pumping Test: Yes (please enclose) No
GRAVEL	0.5	1.0	Yield:
			14. WATER QUALITY
ORANGE SANDY SILTY CLAY	3.0	4.0	Chemical Analysis □ Yes □ No Bacterial Analysis □ Yes □ No Please enciose lab results.
(DANIOANTON AND		20.0	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
TAN SANDY CLAY	16.0	20.0	Installed from 8.0 ft. to 20.0 ft.
			Effective size 1.43 Uniformity Coefficient 1.30
			16. WELL GROUTED? ☑ Yes ☐ No
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From <u>0.0</u> ft. to <u>6.0</u> ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft; direction
			Type
			Well Disinfected ☐ Yes ☐ No Type: Amount:
			18. PUMP: Date installed: Not installed Mfr. Name: Model No.:
			H.P. Volts Length of drop pipe ft, Capacity gpm
			TYPE: Submersible Jet (shallow) Turbine
		. 4	☐ Jet (deep) ☐ Reciprocating ☐ Contrilugal
			19. WELL DRILLER: JÖHNNY BURR CERT. NO.: 01740
			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)
			STATESVILLE, NC 28625
*Indicate Water Bearing Zones			Telephone No.; 704-872-7686 Fax No.: 704-872-0248
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:		-	my direction and this report is true to the best of my knowledge and belief.
BENTONITE SEAL FROM 6.0 TO 8.0			Walnus who was
FEET FEET FEMAL PROM 6.0 TO 8.0			0 10/08/14
			Signed: Date: 10/06/14
C TVDE MANAGEMENT			vvca Officer
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven			If D Level Driller, provide supervising driller's name:
☐ Cable tool ☐ Other p	•	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	



1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL CO.	
(last) (first) Address: PO BOX 968	8. USE:
FOR 908	Residential Public Supply Process
City: CHERAW State: SC Zip: 29520-0968	☐ frigation ☐ Air Conditioning ☐ Emergency
	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 11/8/2014
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 11/8/2014
Name: JACKSON OIL	10. CASING: 2 Threaded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below
City: CHERAW Zip: 29520	Type: PVC Galvanized Surface ft.
	Steel Other Weight
Latitude: Longitude:	'
	in. toft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER	11. SCREEN: Type: SCH 40 PVC Diam.: 2.0"
02314-MW16	Slot/Gauge: 0.010 Length:
4. ABANDONMENT: Yes No	Set Between: 16.0 ft. and 26 ft. NOTE: MULTIPLE SCREENS
	ft. and ft. USE SECOND SHEET
Grouted Depth: fromft. toft.	Sieve Analysis
*Thickness Depth to	12. STATIC WATER LEVEL 21.50 ft, below land surface after 24 hours
Formation Description of Bottom of	13. PUMPING LEVEL Below Land Surface.
Stratum Stratum	ft, after hrs, Pumping G.P.M.
	Pumping Test: Yes (please enclose) No
	Yield:
SEE WELL CONSTRUCTION LOGS	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack)
	Installed from 15.0 ft to 26.0 ft
	Installed from 15.0 ft. to 26.0 ft. Effective size 2 Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes ☐ No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
	Depth: From 0.0 ft. to 14.0 ft.
,	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type
	Well Disinfected
	18. PUMP: Date installed: Not installed
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipeft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS,
*Indicate Water Decision 7	SC, 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Use a 2nd sheet if needed)	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:	my direction and this report is tide to the best of his knowledge and belief.
BENTONITE SEAL: 14.0'-15.0'	
DENIA CHARD SEALS, 1-T.U-15,U	1 // // // 2/-/-
	Signed: 1600 4 /000 Date: 3/3//5
	Well Driller
6. TYPE: Mud Rotary Jetted Bored	If D Level Driller, provide supervising driller's name:
Dug Air Rotary Diriven	
Cable tool Other	I Kundy Dand



Water Well Record

Bureau of Water 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: TO ANY OCTOR
Name: JACKSON OIL CO.	UMW-25497
(last) (first)	0 HOF.
Address: PO BOX 968	8. USE:
	Residential Public Supply Process
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency
	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 11/4/2014
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 11/5/2014
Name: JACKSON OIL	10. CASING: Threaded Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below
City: CHERAW Zip: 29520	Type: D PVC D Galvanized Surfaceft.
	Steel Other Weight lb./ft.
Latitude: Longitude:	
	in. toft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
02314-MW17	Type: SCH 40 PVC Diam.: 2.0"
4. ABANDONMENT: Yes 12 No	Stot/Gauge: 0.010 Length:
3 703 G 700	Set Between: 10.4 ft. and 20.4 ft. NOTE: MULTIPLE SCREENS
Grouted Depth: from ft. to ft.	ft. andft. USE SECOND SHEET
	Sieve Analysis Yes (please enclose) No
*Thickness Depth to Formation Description of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M.
	Pumping Test: Yes (please enclose) No
SEE WELL CONSTRUCTION LOGS	Yield:
SEE WEEL CONSTRUCTION EOUS	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) 2 Yes No
	Installed from 8.0 ft. to 20.4 ft.
	Effective size 2 Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes ① No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
	Depth: From <u>0.0</u> ft. to <u>7.0</u> ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type Amount:
	18. PUMP: Date installed: Not installed
	Mfr. Name: Model No.:
	H.PVoltsLength of drop pipeft. Capacitygpm TYPE: Submersible Jet (shallow) Turbine
	TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal
	TOTAL OF THE PARTY
	19. WELL DRILLER; JOHN S. KERR CERT, NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	
BENTONITE SEAL: 7.0'-8.0'	
DENTORTE SEAL, 7.0 *8.0	(//. / // 3/m/
	Signed:
	Well Diffe
6. TYPE: Mud Rotary	If D Level Driller, provide supervising driller's name:
Dug Air Rotary Driven	ρ_{-1}, ρ_{-1}
Cable tool Other	Randy Beard



PROMOTE PROTECT PROSPER	
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL CO.	U1V1 VY -2347 /
(last) (first)	8. USE:
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency
2,020 0,00	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 11/5/2014
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	
Name: JACKSON OIL	10. CASING: Threaded Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below ☐
City: CHERAW Zip: 29520	Type: ☑ PVC ☐ Galvanized Surface
Latitude: Longitude:	
Latitude: Longitude:	in. to ft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER	11. SCREEN:
02314-MW18	Type: SCH 40 PVC Diam.: 2.0"
4. ABANDONMENT: ☐ Yes ☑ No	Slot/Gauge: 0.010 Length:
200 AN - AN - AN - AN - AN - AN - AN - AN	Set Between:
Grouted Depth: from ft. to ft.	Sieve Analysis Yes (please enclose) No
*Thickness Depth to	12. STATIC WATER LEVEL 17.40 ft. below land surface after 24 hours
Formation Description of Bottom of	13. PUMPING LEVEL Below Land Surface.
Stratum Stratum	13. PUMPING LEVEL Below Land Surface. ft. after hrs. Pumping G.P.M.
	Pumping Test: ☐ Yes (please enclose) ☐ No
SEE WELL CONSTRUCTION LOGS	Yield:
DEL WELL CONSTRUCTION LOGS	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
	Installed from 12.0 ft. to 24.6 ft.
	Effective size Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes ☐ No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other Depth: From 0.0 ft. to 11.0 ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft, direction Type
	Well Disinfected ☐ Yes ☐ No Type: Amount:
	18. PUMP: Date installed: Not installed □
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Use a 2nd sheet if readed)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	
BENTONITE SEAL: 11.0'-12.0'	$\bigcap I I I I I = I I$
	Signed:
5 10000000 000 000 000 000 000 000 000 0	Well Driller
6. TYPE: Mud Rotary Jetted Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven☐ Cable tool ☐ Other	$O \cap O \cap I$
☐ Cable tool ☐ Other	Kandy Grand



1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: LIMAN 25407
Name: JACKSON OIL CO.	UMW-25497
(last) (first)	8. USE:
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency
J Children	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 11/6/2014
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 11/6/2014
Name: JACKSON OIL	10. CASING: Threaded Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below □
City: CHERAW Zip: 29520	Type: ☑ PVC ☐ Galvanized Surface
Latitude: Longitude:	0.0 in. to 12.3 ft. depth Drive Shoe? Yes No
Latitude: Longitude:	in. toft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
02314-MW19	Type: SCH 40 PVC Diam.: 2.0"
4. ABANDONMENT: Yes No	Slot/Gauge: 0.010 Length: Set Between: 12.3 ft. and 22.3 ft. NOTE: MULTIPLE SCREENS
	ft. andft. USE SECOND SHEET
Grouted Depth: from ft. to ft.	Sieve Analysis Yes (please enclose) No
*Thickness Depth to	12. STATIC WATER LEVEL 14.15 ft. below land surface after 24 hours
Formation Description of Bottom of Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
Olidani Olidani	ft. after hrs. Pumping G.P.M.
	Pumping Test: ☐ Yes (please enclose) ☐ No
SEE WELL CONSTRUCTION LOGS	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 10.0 ft. to 22.3 ft. Effective size 2 Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes □ No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
	Depth: From ft. to ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type
	Well Disinfected Yes No Type: Amount:
	18. PUMP: Date installed: Not installed
	Mfr. Name: Model No.: H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
17.1	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS,
*Indicate Water Bearing Zones	SC, 29451 Telephone No.: 843-873-8200 Fax No.: 843-873-8765
	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	\sim 1 \sim 1
BENTONITE SEAL: 9.0'-10.0'	
	Signed:
	Well Driffer
6. TYPE: Mud Rotary Jetted Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven☐ Cable tool ☐ Other	D D R
- Oddie tool Other	Lanely Dramel



1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: LINGUA 25407
Name: JACKSON OIL CO.	UMW-25497
(last) (first)	8. USE:
Address: PO BOX 968	
117 St. (0.040.00.00.00.00.00.00.00.00.00.00.00.0	☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: CHERAW State: SC Zip: 29520-0968	☐ Test Well ☐ Monitor Well ☐ Replacement
Tolophone, World	9. WELL DEPTH (completed) Date Started: 11/6/2014
Telephone: Work: Home:	
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 11/6/2014
Name: JACKSON OIL	10. CASING: Threaded Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below □
City: CHERAW Zip: 29520	Type: PVC Galvanized Surfaceft.
Latter I and the second	Steel Other Weight lb./ft. 0.0 in. to 12.2 ft. depth Drive Shoe? Yes No
Latitude: Longitude:	in. to ft. depth Drive Shoe?
a BUBLIO OVOTENA MANE	
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN: Type: SCH 40 PVC Diam.: 2.0"
02314-MW20	Slot/Gauge: 0.010 Length:
4. ABANDONMENT: Yes 1 No	Set Between: 12.2 ft. and 22.2 ft. NOTE: MULTIPLE SCREENS
	ft. andft. USE SECOND SHEET
Grouted Depth: fromft. toft.	Sieve Analysis ☐ Yes (please enclose) ☐ No
*Thickness Depth to	12. STATIC WATER LEVEL 14.35 ft. below land surface after 24 hours
Formation Description of Bottom of	13. PUMPING LEVEL Below Land Surface.
Stratum Stratum	13. POINFING LEVEL Below Land Surface. ft. after hrs. Pumping G.P.M.
	Pumping Test: Yes (please enclose) No
OFF WELL CONSTRUCTION AS TO	Yield:
SEE WELL CONSTRUCTION LOGS	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
	Installed from 10.0 ft to 22.2
	Installed from 10.0 ft. to 22.2 ft. Effective size 2 Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes ☐ No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
	Depth: From 0.0 ft. to ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type
	Well Disinfected ☐ Yes ☐ No Type: Amount:
	18. PUMP: Date installed: Not installed □
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS,
	SC, 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Use a 2nd sheet if non-dad)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	
BENTONITE SEAL: 9.0'-10.0'	
	Signed:
	Well Driller
5. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven	i b Level Driller, provide supervising driller's name:
☐ Cable tool ☐ Other	Daniel Bancel
	1000 Diavid



1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: LIMAN 25407
Name: JACKSON OIL CO.	UMW-25497
(last) (first)	0 HOT.
Address: PO BOX 968	8. USE:
10-10-10-10-10-10-10-10-10-10-10-10-10-1	☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitor Well ☐ Replacement
2544 3	
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 1/27/2015
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 1/30/2015
Name: JACKSON OIL	10. CASING: Threaded Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below □
City: CHERAW Zip: 29520	Type: PVC Galvanized Surface ft.
	Steel Other Weight lb./ft.
Latitude: Longitude:	in. to13.7 _ft. depth
	in. to ft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
02314-MW21	Type: SCH 40 PVC Diam.: 2.0"
4. ABANDONMENT: Yes No	Slot/Gauge: 0.010 Length: Set Between:13.7 ft. and23.7 ft. NOTE: MULTIPLE SCREENS
	TERROR AND ANTICOLOGICAL TO THE CONTROL OF THE CONT
Grouted Depth: from ft. to ft.	ft. andft. USE SECOND SHEET Sieve Analysis Yes (please enclose) No
*Thickness Depth to	12. STATIC WATER LEVEL 16.55 ft. below land surface after 24 hours
Formation Description of Bottom of	
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M.
	Pumping Test: ☐ Yes (please enclose) ☐ No
SEE WELL CONSTRUCTION LOGS	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 11.0 ft. to 23.7 ft.
	Effective size Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes ■ No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
	Depth: From ft. to ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type
	Well Disinfected ☐ Yes ☐ No Type: Amount:
	18. PUMP: Date installed: Not installed □
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS,
	SC, 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Use a 2nd sheet if needed)	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: 10.0'-11.0'	\bigcap \bigwedge \bigwedge \bigwedge \bigwedge \bigwedge \bigwedge
	Signed: Jehn l hu Date: 3/5//5
	Well Driller
6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored	KDI ID III I
□ Dug □ Air Rotary □ Driven	If D Level Driller, provide supervising driller's name:
☐ Cable tool ☐ Other	Randy Bear
	Kandy Drand



Water Well Record

Bureau of Water 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

PROMOTE PROTECT PROSPER		
1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL CO		OWIW -23497
(last)	(first)	8. USE:
Address: PO BOX 968		☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC	Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency
CHERTY		☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Ho	ome:	9. WELL DEPTH (completed) Date Started: 1/27/2015
2. LOCATION OF WELL: COU	INTY: CHESTERFIELD	ft. Date Completed: 1/30/2015
Name: JACKSON OIL		10. CASING: ☑ Threaded ☑ Welded
Street Address: 820 CHESTERFIELD	HIGHWAY	Diam.: 2.0" Height: Above Below ☐
	p: 29520	Type: 🛮 PVC 🗖 Galvanized Surface ft.
		Steel Other Weight lb./ft.
Latitude: Longitude:		
		in. to ft. depth
	LIC SYSTEM NUMBER:	11. SCREEN: Type: SCH 40 PVC Diam.: 2.0"
02314-MW22		Slot/Gauge: 0.010 Length:
4. ABANDONMENT: ☐ Yes ☑ N	lo	Set Between: 12.0 ft. and 22.0 ft. NOTE: MULTIPLE SCREENS
		ft. andft. USE SECOND SHEET
Grouted Depth: from ft. t		Sieve Analysis ☐ Yes (please enclose) ☐ No
	Thickness Depth to	12. STATIC WATER LEVEL 14.65 ft. below land surface after 24 hours
Formation Description	of Bottom of Stratum	13. PUMPING LEVEL Below Land Surface.
	Stratum Stratum	ft. after hrs. Pumping G.P.M.
		Pumping Test: ☐ Yes (please enclose) ☐ No
CEE WELL CONCEDUCATION LOCA		Yield:
SEE WELL CONSTRUCTION LOGS		14. WATER QUALITY
		Chemical Analysis ☑ Yes □No Bacterial Analysis □ Yes □ No
		Please enclose lab results.
		15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
		Installed from 10.0 ft. to 22.0 ft.
		Effective size Uniformity Coefficient
		16. WELL GROUTED? ☑ Yes □ No
		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
		Depth: From ft. to ft.
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
		Type
		Well Disinfected Yes No Type: Amount:
		18. PUMP: Date installed: Not installed □
		Mfr. Name: Model No.:
		H.P Volts Length of drop pipe ft. Capacity gpm
		TYPE: Submersible Jet (shallow) Turbine
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
		19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
		Address: (Print) Level: A B C D (circle one) LA SAND DUNE LANE ISLE OF PALMS
		14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
*Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765
		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:		
BENTONITE SEAL: 9.0'-10.0'		
		Signed:
		Signed: Date: US Date
6. TYPE: ☐ Mud Rotary ☐ Jetted	☑ Bored	
□ Dug □ Air Rotary		If D Level Driller, provide supervising driller's name:
☐ Cable tool ☐ Other		Read Kound
		rovery Dima



TROMOTE PROTECT PROSPER	
WELL OWNER INFORMATION:	7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL CO.	U191 99 - 2.3-47 /
(last) (first)	8. USE:
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process
0.0	☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: CHERAW State: SC Zip: 29520-0968	☐ Test Well ☐ Monitor Well ☐ Replacement
- Programme August 1	9. WELL DEPTH (completed) Date Started: 1/27/2015
Telephone: Work: Home:	1990 - 181 - 181
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 1/30/2015
Name: JACKSON OIL	10. CASING: Threaded Welded
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below □
City: CHERAW Zip: 29520	Type: PVC Galvanized Surface ft.
27520	Steel Other Weight — Ib./ft.
Latitude: Longitude:	in. to11.2ft. depth Drive Shoe? □ Yes □ No
	in. to ft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
02314-MW23	Type: SCH 40 PVC Diam.: 2.0"
	Slot/Gauge: 0.010 Length:
4. ABANDONMENT: Yes 1 No	Set Between: 11.2 ft. and 21.2 ft. NOTE: MULTIPLE SCREENS
	ft. andft. USE SECOND SHEET
Grouted Depth: from ft. to ft.	Sieve Analysis ☐ Yes (please enclose) ☐ No
*Thickness Depth to	12. STATIC WATER LEVEL 13.72 ft. below land surface after 24 hours
Formation Description of Bottom of	
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M.
	Pumping Test: ☐ Yes (please enclose) ☐ No
SEE WELL CONSTRUCTION LOGS	Yield:
222 W 222 CONDINCETION EOGO	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
	Installed from 10.0 ft. to 21.2 ft.
	Effective size 2 Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
	Depth: From ft. to ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type
	Well Disinfected ☐ Yes ☐ No Type: Amount:
	18. PUMP: Date installed: Not installed □
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DONE LANE, ISLE OF FALMS,
*Indicate Water Bearing Zones	SC, 29451
molecule Water Dealing 20165	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Use a 2nd sheet if needed)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:	my direction and this report is true to the best of my knowledge and belief.
BENTONITE SEAL: 9.0'-10.0'	(1)
	Signed:
	Signed: Date: Date:
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	
	If D Level Driller, provide supervising driller's name:
□ Dug □ Air Rotary □ Driven	$O \cap O \cap O$
☐ Cable tool ☐ Other	Kanelis Branel
	4



4 MELL CHARLED INCORNATION	
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: UMW-25497
Name: JACKSON OIL CO.	OH II -23471
(last) (first)	8. USE:
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency
5117. CHERAW State. SC 21p. 29320-0908	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 1/28/2015
2. LOCATION OF WELL: COUNTY: CHESTERFIELD	ft. Date Completed: 1/30/2015
Name: JACKSON OIL	ft. Date Completed: 1/30/2015 10. CASING: Threaded Welded
	2 0!!
Street Address: 820 CHESTERFIELD HIGHWAY	ED TO A CONTROL OF
City: CHERAW Zip: 29520	Type: ☑ PVC ☐ Galvanized Surface
Latitude.	0.0 in. to 11.0 ft. depth Drive Shoe? □ Yes □ No
Latitude: Longitude:	in, toft, depth Drive Shoe?
2. BUBLIO OVOTEM MANE	
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER	: 11. SCREEN: Type: SCH 40 PVC Diam.: 2.0"
02314-MW24	Slot/Gauge: 0.010 Length:
4. ABANDONMENT: Yes I No	Set Between: 11.0 ft. and 21.0 ft. NOTE: MULTIPLE SCREENS
	ft. andft. USE SECOND SHEET
Grouted Depth: from ft. to ft.	Sieve Analysis Yes (please enclose) No
*Thickness Depth to	
Formation Description of Bottom of	12. STATIC WATER LEVEL 12.54 ft. below land surface after 24 hours
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M.
	Pumping Test: Tyes (please enclose) No
SEE WELL CONSTRUCTION LOGS	Yield:
	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
	Installed from10.0
	Effective size Uniformity Coefficient
	16. WELL GROUTED? ☑ Yes □ No
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
e .	Depth: From
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type Well Disinfected
	18. PUMP: Date installed: Not installed □
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS,
*Indianta Water David	SC, 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Use a 2nd sheet if needed)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:	my direction and this report is true to the best of my knowledge and belief.
BENTONITE SEAL: 9.0'-10.0'	
	Signed: Jehn Jhm Date: 3/5/15
	Well Driller
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D I and Driller availed a sure is in 1911
□ Dug □ Air Rotary □ Driven	If D Level Driller, provide supervising driller's name:
☐ Cable tool ☐ Other	Remark Bruss
	Canely Bravel



1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: LINGUA SAGE			
Name: JACKSON OIL CO.	UMW-25497			
(last) (first)	8. USE:			
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process			
City: CHED AND State: SC 7in; 20520, 0000	☐ Irrigation ☐ Air Conditioning ☐ Emergency			
City: CHERAW State: SC Zip: 29520-0968	☐ Test Well ☐ Monitor Well ☐ Replacement			
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 1/28/2015			
2. LOCATION OF WELL: COUNTY: CHESTERFIELD				
Name: JACKSON OIL				
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below			
City: CHERAW Zip: 29520	Type: PVC Galvanized Surface			
215. 53520	Steel Other Weight Ib./ft.			
Latitude: Longitude:				
Longitude.	in. to ft. depth			
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:			
02314-MW25	Type: SCH 40 PVC Diam.: 2.0"			
4. ABANDONMENT: Yes 🖸 No	Slot/Gauge: 0.010 Length:			
4. ABANDONMENT: LI TES MI NO	Set Between:11.0ft. and21.0ft. NOTE: MULTIPLE SCREENS			
Crouted Donthy from 4 to	ft. and ft. USE SECOND SHEET			
Grouted Depth: fromft. toft.	Sieve Analysis			
*Thickness Depth to Formation Description of Bottom of	12. STATIC WATER LEVEL 13.0 ft. below land surface after 24 hours			
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.			
	ft. after hrs. Pumping G.P.M.			
	Pumping Test: ☐ Yes (please enclose) ☐ No			
SEE WELL CONSTRUCTION LOGS	Yield:			
OBE WEEE CONSTRUCTION ECOS	14. WATER QUALITY			
	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No			
	Please enclose lab results.			
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No			
	Installed from10.0			
	Installed from 10.0 ft. to 21.0 ft. Effective size 2 Uniformity Coefficient			
	16. WELL GROUTED? ☑ Yes ■ No			
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other			
	Depth: From ft. to ft.			
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction			
	Туре			
	Well Disinfected Yes No Type: Amount:			
	18. PUMP: Date installed: Not installed □			
	Mfr. Name: Model No.:			
	H.P Volts Length of drop pipe ft. Capacity gpm			
	TYPE: Submersible Jet (shallow) Turbine			
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal			
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128			
	Address: (Print) Level: A B C D (circle one)			
	14 SAND DUNE LANE, ISLE OF PALMS,			
*Indicate Water Bearing Zones	SC, 29451			
indicate water bearing zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under			
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.			
5. REMARKS:	and to the boot of my mioriouge und bollon			
DENTONITE SEAL, O OLIO OL	$OI \rightarrow I$			
BENTONITE SEAL: 9.0'-10.0'				
	Signed:			
	Well Drille			
6. TYPE: Mud Rotary Jetted Bored	If D Level Driller, provide supervising driller's name:			
□ Dug □ Air Rotary □ Driven				
☐ Cable tool ☐ Other	Candy Scane			



Water Well Record

Bureau of Water 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

PROMOTE PROTECT PROSPER	241 Ct CCt, CCt Ambia, CC 20201 17 CC, (CCC) CCC 1000			
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: LINAW 25407			
Name: JACKSON OIL CO.	UMW-25497			
(last) (first)	8. USE:			
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process			
City: CHERAW State: SC Zip: 29520-096	8 Irrigation Air Conditioning Emergency			
- STERICH	☐ Test Well ☐ Monitor Well ☐ Replacement			
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 1/28/2015			
2. LOCATION OF WELL: COUNTY: CHESTERFIEL	D 20.4 ft. Date Completed: 1/30/2015			
Name: JACKSON OIL	10. CASING: ☑ Threaded ☑ Welded			
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below			
City: CHERAW Zip: 29520	Type: PVC Galvanized Surface ft.			
	Steel Other Weight — Ib./ft. 0.0 in. to 10.4 ft. depth Drive Shoe? Yes No			
Latitude: Longitude:				
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMB	11. SCREEN: Type: SCH 40 PVC Diam.; 2.0"			
02314-MW26	Slot/Gauge: 0.010 Length:			
4. ABANDONMENT: Yes I No	Set Between: 10.4 ft. and 20.4 ft. NOTE: MULTIPLE SCREENS			
	ft, andft USE SECOND SHEET			
Grouted Depth: fromft. to	ft. Sieve Analysis			
Formation Description *Thickness Depth of Bottom	12. STATIC WATER LEVEL 12.2 It, below land surface after 24 hours			
Formation Description of Bottom Stratum Stratu	가장이 그렇게 얼마면 있다면 나면서, 맛요 아이를 가게 되었다면 다른 얼마가면 얼마가면 얼마가면 얼마면 얼마나 아이를 하는데 아이를 사용하다면 사용하다면 사용하다면 하는데 어머니는 사용하다면 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 하는데 어머니는 그렇지만 그렇지만 하는데 어머니는 그렇지만 그렇지만 하는데 어머니는 그렇지만 그렇지만 그렇지만 그렇지만 그렇지만 그렇지만 그렇지만 그렇지만			
	ft. after hrs. Pumping G.P.M.			
	Pumping Test: ☐ Yes (please enclose) ☐ No			
SEE WELL CONSTRUCTION LOGS	Yield:			
22 23.1.2.1.2.1.2.000	14. WATER QUALITY			
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No			
	Please enclose lab results.			
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No			
	Installed from 9.0 ft. to ft.			
	Effective size Uniformity Coefficient			
	16. WELL GROUTED? 🔽 Yes 🗖 No			
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other			
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction			
	Type Amount			
	Well Disinfected ☐ Yes ☐ No Type: Amount:			
	18. PUMP: Date installed: Not installed			
	Mfr. Name:Model No.:			
	H.P Volts Length of drop pipe ft. Capacity gpm TYPE: Submersible Jet (shallow) Turbine			
	Jet (deep) ☐ Reciprocating ☐ Centrifugal			
	19. WELL DRILLER; JOHN S. KERR CERT. NO.: 2128			
	Service Association and Association and Association (Association Association A			
	Address: (Print) 14 SAND DUNE LANE, ISLE OF PALMS, Level: A B C D (circle one)			
	SC, 29451			
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765			
(Use a 2nd sheet if needed)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under			
5. REMARKS:	my direction and this report is true to the best of my knowledge and belief.			
BENTONITE SEAL: 8.0'-9.0'				
	Signed:			
	Well Driller			
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D Level Driller, provide supervising driller's name:			
□ Dug □ Air Rotary □ Driven				
☐ Cable tool ☐ Other	Karrely Kramel			



Water Well Record

Bureau of Water 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

PROMOTE PROTECT PROSPER	241 24 20t, 2014 11 11 14, 20 20 20 1 1 1 00, (200) 200 4000
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER: LINAW 25407
Name: JACKSON OIL CO.	UMW-25497
(last) (first)	8. USE:
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process
City: CHERAW State: SC Zip: 29520-096	
City: CHERAW State: SC Zip: 29520-096	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 1/28/2015
2. LOCATION OF WELL: COUNTY: CHESTERFIELI	
Name: JACKSON OIL	iii
Street Address: 820 CHESTERFIELD HIGHWAY	10. CASING: ☑ Threaded ☑ Welded Diam.: 2.0" Height: Above ☑ Below ☑
	Type: PVC Galvanized Surface ft.
City: CHERAW Zip: 29520	Steel Other Weight
Latitude: Longitude:	
Longitude.	in. to ft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBE	R. 11. SCREEN:
02314-MW27	Type: SCH 40 PVC Diam.: 2.0"
	Slot/Gauge: 0.010 Length:
4. ABANDONMENT: Yes 1 No	Set Between:10.0ft. and20.0ft. NOTE: MULTIPLE SCREENS
Crouted Donthy from	ft. and ft. USE SECOND SHEET
Grouted Depth: fromft. tof	
*Thickness Depth to Formation Description of Bottom of	12. STATIC WATER LEVEL 11.01 If below land surface after 24 hours
Stratum Stratum	
	ft. after hrs. Pumping G.P.M.
	Pumping Test: ☐ Yes (please enclose) ☐ No
SEE WELL CONSTRUCTION LOGS	Yield:
SEE WEEE CONSTRUCTION EOGS	14. WATER QUALITY
	Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
	Installed from 9.0 ft. to 20.0 ft.
	Effective size Uniformity Coefficient
	16. WELL GROUTED? Z Yes No
	☑ Neat Cement □ Bentonite □ Bentonite/Cement □ Other
	Depth: From 0.0 ft. to 8.0 ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Well Disinfected ☐ Yes ☐ No Type: Amount:
	18. PUMP: Date installed: Not installed
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: JOHN S. KERR CERT. NO.: 2128
	Address: (Print) Level: A B C D (circle one)
	14 SAND DUNE LANE, ISLE OF PALMS,
	SC, 29451
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765
(Use a 2nd sheet if needed)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed) 5. REMARKS:	my direction and this report is true to the best of my knowledge and belief.
BENTONITE SEAL: 8.0'-9.0'	()
	Signed:
	Well Doiller
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven	in a cover brillier, provide supervising driller's fiditie.
☐ Cable tool ☐ Other	Canada Bound
	Lovery Dillour



TROSTITE PROTECT PROSPER						
WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-25497			
Name: JACKSON OIL COMPANY			OW W "ZJTJ"			
Address: DO DOYLOGO	(fir	st)	8. USE:			
Address: PO BOX 968			☐ Residential ☐ Public Supply ☐ Process			
City: CHERAW State: SC	7 7 7	0520	☐ Irrigation ☐ Air Conditioning ☐ Emergency			
- WASTERIAN AND STATES		2020	☐ Test Well ☐ Monitor Well ☐ Replacement			
Telephone: Work;	Home:		9. WELL DEPTH (completed) Date Started: 09/24/14			
2. LOCATION OF WELL: SC C	OUNTY: CHE	STERFIELD	ft. Date Completed: 09/25/14			
Name: WINDSOR MART		., , , , , , , , , , , , , , , , , , ,	10. CASING: Threaded Welded			
Street Address: 820 CHESTERF	HELTY LIMA	,	Diam.: 2 INCH, 6 INCH Height: Above Below			
City: CHERAW	Zip: 29520		Type: 🖸 PVC 🗆 Galvanized Surface			
CHERT	1 29320		Sicel Dither Weight			
Latitude: 34° 41' 49,17" Longitude: 79° 55' 26,61"		61"	2.0 in to 50.0 ft. depth Drive Shoe?			
	. 17 33 20.		<u>6.0</u> in. to <u>45.0</u> ft. depth			
3. PUBLIC SYSTEM NAME: PL	JBLIC SYSTE	M NUMBER:	11, SCREEN:			
02314	DMW	1	Type: SCH 40 PVC Diam.; 2 INCH			
4. ABANDONMENT: Yes [7]		•	Slot/Gauge; 010 Length; 5.0 FEET			
4. ABANDONMENT: 1 Fes 12	NO		Set Between: 50.0 ft, and 55.0 ft. NOTE: MULTIPLE SCREENS			
Country Davids Com-			ft. USE SECOND SHEET			
Grouted Depth: from	T	T	Sieve Analysis □ Yes (please enclose) ☑ No			
Formation Description	*Thickness of	Depth to	12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours			
r ormation Description	Stratum	Bottom of Stratum	13. PUMPING LEVEL Below Land Surface.			
ASPHALT			ft. after hrs. Pumping G.P.M.			
ASPHALI	0.5	0.5	Pumping Test: ☐ Yes (please enclose) ☐ No			
Chattei			Yield:			
GRAVEL	0.5	1.0	14. WATER QUALITY			
OD ANION CLANDAL ON ANI			Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No			
ORANGE SANDY CLAY	3.0	4.0	Picase enciose lab results.			
TAN CANDA OT AN	2.1.0	000	15. ARTIFICIAL FILTER (filter pack) ② Yes □ No			
TAN SANDY CLAY	24.0	28.0	Installed from 48.0 ft. to 55.0 ft.			
BROWN SANDY CLAY	167.47	15.0	Effective size 1.43 Uniformity Coefficient 1.30			
BROWN OF CEAT	BROWN SANDY CLAY 17.0 45.0					
GRAY SANDY CLAY	10.0	66.0	16. WELL GROUTED? ☑ Yes ☐ No			
ORAT SANDT CLAT	10.0	55.0	Z Neal Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other			
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction			
			Type Well Disinfected 🖸 Yes 🚨 No Type: Amount:			
		ļ				
			18. PUMP: Date installed: Not installed □			
			Mfr. Name: Model No.:			
			H.PVoltsLength of drop pipeft, Capacitygpm			
			TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal			
			19. WELL DRILLER: JOHNNY BURR CERT. NO.: 01740 Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)			
ļ			STATESVILLE, NC 28625			
*Indicate Water Bearing Zones			Telephone No.; 704-872-7686 Fax No.: 704-872-0248			
201102		;-	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under			
(Use a 2nd sheet if needed)		ļ	my direction and this report is true to the best of my knowledge and belief.			
5. REMARKS:			$\Delta I I I$			
BENTONITE SEAL FROM 45.0 TO 48.0 FT. 6 INCH PVC SURFACE CASING			Marie of and			
			No () Some			
GROUTED FROM 0.0 TO 45.0 FT	ļ		Signed:			
			Well Driller			
			If D Level Driller, provide supervising driller's name:			
☐ Dug ☐ Air Rotary ☐ Driven		riven				
☐ Cable tool ☐ Other A	JUGER	SECTION				
						



1. WELL OWNER INFORMATION:		7. PERMIT NUMBER: LIN WY 25 407			
Name: JACKSON OIL CO.		7. PERWIT NOWBER. UMW-25497			
·	ïrst)	8. USE:			
Address: PO BOX 968		☐ Residential ☐ Public Supply ☐ Process			
City: CHERAW State: SC Zip:	29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitor Well ☐ Replacement			
Telephone: Work: Home:		☐ Test Well ☐ Monitor Well ☐ Replacement 9. WELL DEPTH (completed) Date Started: 1/29/2015			
2. LOCATION OF WELL: COUNTY: CHI	ESTERFIELD				
Name: JACKSON OIL	COTENTILED				
Street Address: 820 CHESTERFIELD HIGHWA	ΛY	Diam.: 2.0" Height: Above Below			
City: CHERAW Zip: 29520		Type: 🗹 PVC 🗖 Galvanized Surfaceft.			
27320		Steel G Other Weight lh /ft			
Latitude: Longitude:					
3. PUBLIC SYSTEM NAME: PUBLIC SYST	EM NUMBER:	11. SCREEN: Type: SCH 40 PVC Diam.: 2.0"			
02314-DW2		Type: Sel140170			
4. ABANDONMENT: Yes No		Set Between: 44.6 ft. and 49.6 ft. NOTE: MULTIPLE SCREENS			
		ft. andft. USE SECOND SHEET			
Grouted Depth: fromft. to	ft.	Sieve Analysis ☐ Yes (please enclose) ☐ No			
*Thickness		12. STATIC WATER LEVEL 16.59 ft. below land surface after 24 hours			
Formation Description of Stratum	Bottom of Stratum	13. PUMPING LEVEL Below Land Surface.			
Graturi	Stratum	ft. after hrs. Pumping G.P.M.			
		Pumping Test: ☐ Yes (please enclose) ☐ No			
OFF WELL CONCEDIOTION AND		Yield:			
SEE WELL CONSTRUCTION LOGS		14. WATER QUALITY			
		Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No			
		Please enclose lab results.			
		15. ARTIFICIAL FILTER (filter pack) Ø Yes No			
		Installed from 43.0 ft. to 49.6 ft.			
		Effective size Uniformity Coefficient			
		16. WELL GROUTED? ☑ Yes 🗖 No			
		☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other			
		Depth: From 6t. to ft.			
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction			
		Туре			
		Well Disinfected ☐ Yes ☐ No Type: Amount:			
		18. PUMP: Date installed: Not installed 🔲			
		Mfr. Name: Model No.:			
		H.P Volts Length of drop pipeft. Capacity gpm TYPE: Submersible Jet (shallow) Turbine			
		TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal			
		TOTAL AND DO			
		19. WELL DRILLER: JOHN S. KERK CERT. NO.: 2128 Address: (Print) Level: A B C D (circle one)			
		14 SAND DUNE LANE, ISLE OF PALMS,			
		SC, 29451			
Indicate Water Bearing Zones		Telephone No.: 843-873-8200 Fax No.: 843-873-8765			
(Use a 2nd sheet if needed)		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under			
5. REMARKS:		my direction and this report is true to the best of my knowledge and belief.			
BENTONITE SEAL: 42.0-43.0'		ΔI			
		() / a let-			
		Signed:			
TVAP		Well Driller			
Doug ☐ Air Rotary ☐ Driven		If D Level Driller, provide supervising driller's name:			
☐ Dug ☐ Air Rotary ☐ Cable tool ☐ Other	Duven	Randy Brand			
Constant Con		Kanay Diana			



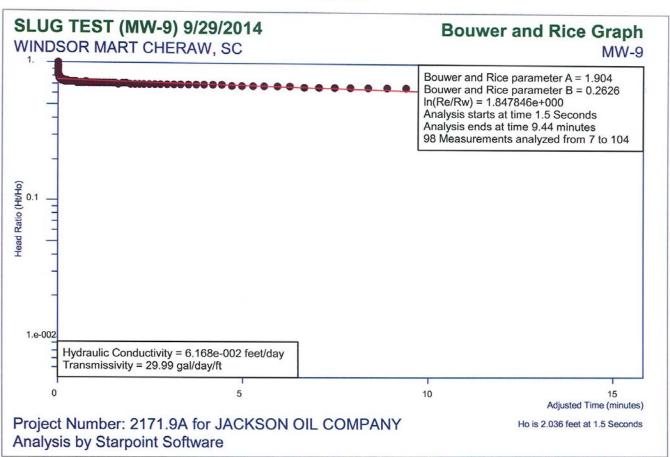
1.404.011.1.401.013.4.8					
1. WELL OWNER INFORMATION:	7. PERMITNUMBER: 1.1MANA 25407				
Name: JACKSON OIL CO.	UMW-25497				
(last) (first)	8. USE:				
Address: PO BOX 968	☐ Residential ☐ Public Supply ☐ Process				
City: CHERAW State: SC Zip: 29520-0968	☐ Irrigation ☐ Air Conditioning ☐ Emergency				
City-CHERAW State: SC 2ip. 29320-0908	☐ Test Well ☐ Monitor Well ☐ Replacement				
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 1/29/2015				
2. LOCATION OF WELL: COUNTY: CHESTERFIELD					
Name: JACKSON OIL					
	10. CASING: ☑ Threaded ☑ Welded				
Street Address: 820 CHESTERFIELD HIGHWAY	Diam.: 2.0" Height: Above Below				
City: CHERAW Zip: 29520	Type: ☑ PVC ☐ Galvanized Surface				
(although	0.0 in, to 44.6 ft, depth Drive Shoe? Yes No				
Latitude: Longitude:	in. toft. depth				
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN: Type: SCH 40 PVC Diam.: 2.0"				
02314-DW3	Slot/Gauge: 0.010 Length:				
4. ABANDONMENT: Yes No	44 / 40 /				
Grouted Depth: from ft. to ft.	ft. USE SECOND SHEET Sieve Analysis Yes (please enclose) No				
*Thickness Depth to					
Formation Description of Bottom of	12. STATIC WATER LEVEL 13.72 ft. below land surface after 24 hours				
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.				
	ft. after hrs. Pumping G.P.M.				
	Pumping Test: 🔲 Yes (please enclose) 🗖 No				
SEE WELL CONSTRUCTION LOGS	Yield:				
SEE WEDE CONSTRUCTION EOGS	14. WATER QUALITY				
	Chemical Analysis ☑ Yes ☐No Bacterial Analysis ☐ Yes ☐ No				
	Please enclose lab results.				
	AE ARTIGONA EUTER Ellerandis El Ven D Ma				
	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☑ No Installed from43.0 ft. toft.				
	Effective size 2 Uniformity Coefficient				
	16. WELL GROUTED? T Yes No				
	☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other				
	Depth: From ft. to ft.				
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction				
	Type				
	Well Disinfected ☐ Yes ☐ No Type: Amount:				
	18. PUMP: Date installed: Not installed				
	Mfr. Name: Model No.:				
	H.P Volts Length of drop pipe ft. Capacity gpm				
	TYPE: Submersible Jet (shallow) Turbine				
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal				
	19. WELL DRILLER; JOHN S. KERR CERT. NO.: 2128				
	Address: (Print) Level: A B C D (circle one)				
	14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451				
*Indicate Water Bearing Zones	Telephone No.: 843-873-8200 Fax No.: 843-873-8765				
	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under				
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.				
5. REMARKS:	my succeed and the report is true to the best of my knowledge and belief,				
BENTONITE SEAL: 42.0'-43.0'	Signed: Well Driller Date: 3/5/15				
	Signed:				
	Well Griller				
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored					
☐ Dug ☐ Air Rotary ☐ Driven	If D Level Driller, provide supervising driller's name:				
☐ Cable tool ☐ Other	0 - 1 / 1 - 1				
- Onto	Rundy Brand				

APPENDIX F

Aquifer Evaluation Forms

SUMMARY	SUMMARY of SLUG TEST FORM				
SOUTH CAROLINA Department of Health and Environmental Control (DHEC)					
Site Data					
UST Permit #: <u>02314</u>	County:	Chesterfield			
Facility Name: Windsor Mart					
Slug Data					
See Appendix F Table Figure for (water level logs, etc.) (Complete as appeared to the control of	ppropriate). Transducer and D	ata logger	hod).		
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	02314-MW9	02314-MW10	02314-DW1		
Initial Rise/Drawdown in well (feet)	18.57	19.28	17.60		
Radius of Well Casing (feet)	0.0833	0.0833	0.0833		
Effective Radius of Well (feet)	0.25	0.25	0.25	<u> </u>	
Static Saturated Aquifer Thickness (feet)	65	65	65	 	
Length of Well Screen (feet)	10	10	5	 	
Static Height of Water Column in Well (feet)	2.77	4.24	37.41		
Calculations					
See Appendix <u>F</u> for calculations. The method for aquifer calculations was <u>Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.)</u> Calculated values by well were as follows:					
Slug Test Conducted in well(s) number	02314-MW9	02314-MW10	02314-DW1		
Hydraulic Conductivity	6.168e-002 ft/day	6.453e-002 ft/day	0.6028 ft/day		
Thickness of the aquifer used to calculate hydraulic con	ductivity was 65	feet.			
The aquifer is confined semi-confined	_x_ water table (Check as appropria	ate).		
The estimated seepage velocity is <u>0.026 ft/year</u> based a hydraulic gradient of <u>0.0028 ft/ft</u> , and a porosity of sand, clay, etc).					

SUMMARY of SLUG TEST FORM



SLUG TEST (MW-9)

Site Name: Location: Test Date:

WINDSOR MART CHERAW, SC 9/29/2014

Client:

JACKSON OIL COMPANY

Project Number:

2171.9A

Import File:

C:\Users\bspillane\Documents\WinSitu Data\Exported Data\windsor Mart\TA

Well Label: Aquifer Thickness: Screen Length: Casing Radius: Effective Radius: Static Water Level:

MW-9 65, feet 10. feet 8.33e-002 feet 0.25 feet 16.53 feet

Water Table to Screen Bottom: Anisotropy Ratio:

2.77 feet 1.

Time Adjustment:

Test starts with trial 5

1.5 Seconds

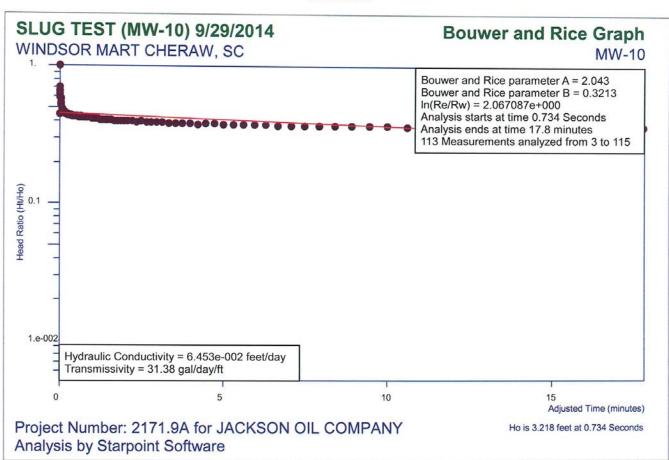
There are 113 time and drawdown measurements

Maximum head is 2.2 feet Minimum head is 0. feet

Trial	Time	Adjusted Time	Drawdown	Head	Head Ratio
	(Seconds)	(Seconds)	(feet)	(feet)	
1	Ö.	-1.5	17.86	1.335	0.6068
2	0.25	-1.25	17.86	1.332	0.6055
3	0.5	<i>-</i> 1.	17.86	1.332	0.6055
4	0.75	-0.75	18.33	1.795	0.8159
5	1.	-0.5	18.5	1.968	0.8945
6	1.25	-0.25	18,73	2.2	1.
7	1.5	0.	18.57	2.036	0.9255
8	1.75	0.25	18.49	1.956	0.8891
9	2.	0.5	18.42	1.893	0.8605
10	2.25	0.75	18.36	1.829	0.8314
11	2.5	1.	18.27	1.743	0.7923
12	2.977	1.477	18.21	1.678	0.7627
13	3.196	1.696	18.23	1.702	0.7736
14	3.416	1.916	18.18	1.645	0.7477
15	3.91	2.41	18.14	1.61	0.7318
16	4.131	2.631	18.14	1.614	0.7336
17	4.351	2.851	18.15	1.616	0.7345
18	4.836	3.336	18.12	1.59	0.7227
19	5.057	3.557	18.11	1.578	0.7173
20	5.277	3.777	18.09	1.563	0.7105
21	5.792	4.292	18.08	1.555	0.7068
22	6.012	4.512	18.09	1.557	0.7077
23	6.231	4.731	18.09	1.559	0.7086
24	6.761	5.261	18.07	1.543	0.7014
25	6.981	5.481	18.09	1.558	0.7082
26	7.203	5.703	18.07	1.539	0.6995
27	7.746	6.246	18.07	1.541	0.7005
28	7.968	6.468	18.07	1.541	0.7005
29	8.19	6.69	18.05	1.525	0.6932
30	8.743	7.243	18.06	1.528	0.6945
31	8.964	7.464	18.06	1.535	0.6977
32	9.185	7.685	18.04	1.514	0.6882
33	9.752	8.252	18.06	1.53	0.6955

34	10.08	8.58	18.05	1.519	0.6905
35	10.68	9.18	18.04	1.511	0.6868
36	11.28	9.78	18.05	1.522	0.6918
37	11.94	10.44	18.04	1.511	0.6868
38	12.66	11.16	18.05	1.518	0.69
39	13.44	11.94	18.03	1.502	0.6827
40	14.22	12.72	18.04	1.509	0.6859
41	15.06	13.56	18.03	1.499	0.6814
42	15.96	14.46	18.04	1.514	0.6882
43	16.92	15.42	18.03	1.497	0.6805
44	17.88	16.38	18.02	1.49	0.6773
45	18.96	17,46	18.02	1.492	0.6782
46	20.1	18.6	18.01	1.484	0.6745
47	21.3	19.8	18.02	1.486	0.6755
48	22.56	21.06	18.02	1.489	0.6768
49	23.88	22.38	18.01	1.48	0.6727
50	25.32	23.82	18.02	1.489	0.6768
51	26.82	25.32	18.02	1.489	0.6768
52	28,38	26.88	18.03	1.496	0.68
53	30.06	28.56	18.01	1.481	0.6732
54	31.86	30.36	18.01	1.477	0.6714
55	33.72	32.22	18.	1.474	0.67
56	35.76	34.26	18. 18.	1.469	0.6677
57	37.86	36.36	18.	1.409	0.6682
58	40.08	38.58	18. 18.	1.472	0.6691
59	42.48	40.98	17.99	1.463	0.665
60	45.	43.5	17.98		0.6614
61	45. 47.64	46.14	18.01	1.455 1.48	0.6727
62	50.46	48.96		1.467	0.6668
63			18.		
64	53.46	51.96	18.	1.467	0.6668
65	56.64 60.	55.14 58.5	18.	1.47	0.6682
66	63.6		18.	1.466	0.6664
67		62.1	18.	1.466	0.6664
68	67.2	65.7	17.99	1.458	0.6627
69	71.4	69.9	17.99	1.459	0.6632
	75.6	74.1	17.99	1.456	0.6618
70	79.8	78.3	17.99	1.459	0.6632
71 72	84.6	83.1	17.99	1.463	0.665
	90.	88.5	17.98	1.449	0.6586
73	94.8	93.3	17.99	1.456	0.6618
74 75	100.8	99.3	17.98	1.446	0.6573
75 76	106.8	105.3	17.99	1.456	0.6618
76	112.8	111.3	17.98	1.451	0.6595
77	119.4	117.9	17.97	1.443	0.6559
78 70	126.6	125.1	17.97	1.443	0.6559
79	134.4	132.9	17.97	1.436	0.6527
80	142.2	140.7	17.97	1.436	0.6527
81	150.6	149.1	17.97	1.441	0.655
82	159.6	158.1	17.97	1.438	0.6536
83	169.2	167.7	17.96	1.433	0.6514
84	178.8	177.3	17.96	1.428	0.6491
85	189.6	188.1	17.95	1.424	0.6473
86	201.	199.5	17.97	1.436	0.6527
87	213.	211.5	17.95	1.423	0.6468
88	225.6	224.1	17.95	1.423	0.6468
89	238.8	237.3	17.96	1.425	0.6477
90	253.2	251.7	17.96	1.428	0.6491

91	268.2	266.7	17.96	1.427	0.6486	
92	283.8	282.3	17.94	1.412	0.6418	
93	300.6	299.1	17.95	1.421	0.6459	
94	318.6	317.1	17.94	1.405	0.6386	
95	337.2	335.7	17.94	1.407	0.6395	
96	357.6	356.1	17.93	1,404	0.6382	
97	378.6	377.1	17.93	1.398	0.6355	
98	400.8	399.3	17.92	1.394	0.6336	
99	424.8	423.3	17.92	1.387	0.6305	
100	450.	448.5	17.92	1.391	0.6323	
101	476.4	474.9	17.92	1.386	0.63	
102	504.6	503.1	17.91	1.385	0.6295	
103	534.6	533.1	17.9	1.374	0.6245	
104	566.4	564.9	17.92	1.389	0.6314	
105	600.	598.5	17.9	1.375	0.625	
106	636.	634.5	17.91	1.376	0.6255	
107	672.	670.5	17.92	1.387	0.6305	
108	714.	712.5	17.91	1.384	0.6291	
109	756.	754.5	17.9	1.368	0.6218	
110	798.	796.5	17.91	1.377	0.6259	
111	846.	844.5	17.9	1.374	0.6245	
112	900.	898.5	17.9	1.37	0.6227	
113	948.	946.5	17.9	1.375	0.625	



SLUG TEST (MW-10)

Site Name: WINDSOR MART Location: CHERAW, SC Test Date: 9/29/2014

Client: JACKSON OIL COMPANY

Project Number: 2171.9A

Import File: C:\Users\bspillane\Documents\WinSitu Data\Exported Data\windsor Mart\TA

Well Label: MW-10 Aquifer Thickness: 65. feet Screen Length: 10. feet Casing Radius: 8.33e-002 feet Effective Radius: 0.25 feet Static Water Level: 16.06 feet Water Table to Screen Bottom: 4.24 feet Anisotropy Ratio: 1.

Time Adjustment: 0.734 Seconds

Test starts with trial 2

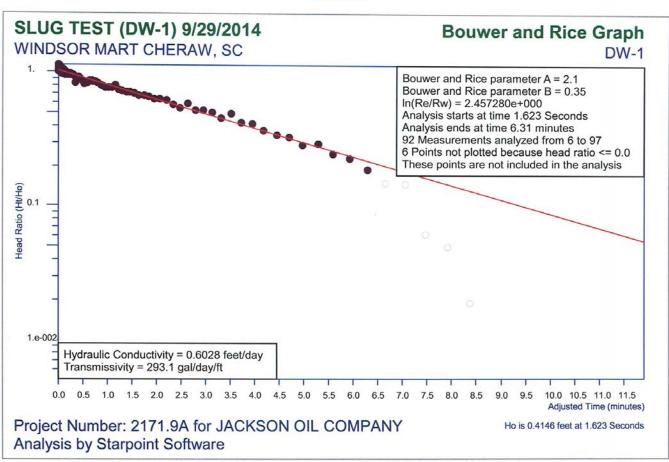
There are 115 time and drawdown measurements

Maximum head is 3.218 feet Minimum head is 0. feet

			· · · · · · · · · · · · · · · · · · ·		
Trial	Time	Adjusted Time	Drawdown	Head	Head Ratio
	(Seconds)	(Seconds)	(feet)	(feet)	
1	0.	-0.734	17.21	1,146	0.3561
2	0.25	-0.484	17.19	1.13	0.3511
3	0.734	0.	19.28	3.218	1.
4	0.955	0.221	17 <i>.</i> 51	1.446	0.4493
5	1.176	0.442	18.32	2.256	0.7011
6	1.67	0.936	18.22	2.156	0.67
7	1.891	1.157	18.16	2.102	0.6532
8	2.112	1.378	18.1	2.043	0.6349
9	2.616	1.882	17.98	1.915	0.5951
10	2.838	2.104	17.92	1.865	0.5796
11	3.059	2.325	17.89	1.827	0.5677
12	3.57	2.836	17.79	1.734	0.5388
13	3.791	3.057	17.76	1.699	0.528
14	4.013	3.279	17.74	1.682	0.5227
15	4.537	3.803	17.78	1.72	0.5345
16	4.758	4.024	17.73	1.666	0.5177
17	4.98	4.246	17.66	1.596	0.496
18	5.519	4.785	17.61	1.551	0.482
19	5.741	5.007	17.61	1.548	0.481
20	5.963	5.229	17.6	1.545	0.4801
21	6.514	5.78	17.58	1.521	0.4727
22	6.736	6.002	17.57	1.514	0.4705
23	6.957	6.223	17.58	1.517	0.4714
24	7.52	6.786	17.55	1.493	0.464
25	7.741	7.007	17.55	1.494	0.4643
26	7.964	7.23	17.56	1.501	0.4664
27	8.541	7.807	17.54	1.479	0.4596
28	8.764	8.03	17.54	1.481	0.4602
29	8.987	8.253	17.55	1.486	0.4618
30	9.556	8.822	17.53	1.473	0.4577
31	9.779	9.045	17.54	1.475	0.4584
32	10.	9.268	17.54	1.476	0.4587
33	10.23	9.494	17.53	1.474	0.458

24	40	0.000			
34	10.54	9.803	17.54	1.48	0.4599
35	10.76	10.03	17.53	1.472	0.4574
36	11.28	10.55	17.52	1.457	0.4528
37	11.94	11.21	17.51	1,446	0.4493
38	12.66	11.93	17.51		
				1.447	0.4497
39	13.44	12.71	17.5	1.44	0.4475
40	14.22	13.49	17.5	1.436	0.4462
41	15.06	14.33	17.5	1.44	0.4475
42	15.96	15.23	17.48	1.419	0.441
43	16.92	16.19	17.47	1.412	0.4388
44	17.88	17.15	17.48	1.417	0.4403
45	18.96	18.23	17.47	1.412	0.4388
46	20.1				
		19.37	17.48	1.416	0.44
47	21.3	20.57	17.48	1.422	0.4419
48	22.56	21.83	17.46	1.402	0.4357
49	23.88	23.15	17.45	1.393	0.4329
50	25.32	24.59	17.45	1.392	0.4326
51	26.82	26.09	17.46	1.395	0.4335
52	28.38	27.65	17.44	1.383	0.4298
53	30.06	29.33	17.44	1.384	0.4301
54					
	31.86	31.13	17.44	1.378	0.4282
55	33.72	32.99	17.44	1.381	0.4291
56	35.76	35.03	17.43	1.367	0.4248
57	37.86	37.13	17.43	1.371	0.426
58	40.08	39.35	17.44	1.376	0.4276
59	42.48	41.75	17.42	1.357	0.4217
60	45.	44.27	17.42	1.358	0.422
61	47.64	46.91	17.42	1.362	0.4232
62	50.46	49.73	17.42	1.362	0.4232
63					
	53.46	52.73	17.41	1.35	0.4195
64	56.64	55.91	17.41	1.352	0.4201
65	60.	59.27	17 <i>.</i> 4	1.338	0.4158
66	63.6	62.87	17.39	1.328	0.4127
67	67.2	66.47	17.39	1.332	0.4139
68	71.4	70.67	17.39	1.331	0.4136
69	75.6	74.87	17.37	1.307	0.4062
70	79.8	79.07	17,38	1.321	0.4105
71	84.6	83.87	17.37	1.306	0.4058
72	90.	89.27	17.36	1.304	0.4052
73					
	94.8	94.07	17.36	1.303	0.4049
74	100.8	100.1	17.36	1.296	0.4027
75	106.8	106.1	17.35	1.288	0.4002
76	112.8	112.1	17.34	1.28	0.3978
77	119.4	118.7	17.35	1.286	0.3996
78	126.6	125.9	17.34	1.28	0.3978
79	134.4	133.7	17.35	1.287	0.3999
80	142.2	141.5	17.32	1,265	0.3931
81	150.6	149.9	17.34	1.276	0.3965
82					
	159.6	158.9	17.33	1.268	0.394
83	169.2	168.5	17.33	1.27	0.3947
84	178.8	178.1	17.32	1.263	0.3925
85	189.6	188.9	17.32	1.257	0.3906
86	201.	200.3	17.3	1.241	0.3856
87	213.	212.3	17.31	1.249	0.3881
88	225.6	224.9	17.29	1.233	0.3832
89	238.8	238.1	17.3	1.241	0.3856
90	253.2	252.5	17.28	1.225	0.3807
			17.20	1,220	0.0007

91	268.2	267.5	17.29	1,228	0.3816	
92	283.8	283.1	17.29	1.231	0.3825	
93	300.6	299.9	17.28	1.215	0.3776	
94	318.6	317.9	17.27	1.206	0.3748	
95	337.2	336.5	17.28	1.22	0.3791	
96	357.6	356.9	17.27	1.208	0.3754	
97	378.6	377.9	17.27	1.207	0.3751	
98	400.8	400.1	17.26	1.202	0.3735	
99	424.8	424.1	17.25	1.19	0.3698	
100	450.	449.3	17.24	1.181	0.367	
101	476.4	475.7	17.26	1.197	0.372	
102	504.6	503.9	17.26	1.198	0.3723	
103	534.6	533.9	17.26	1.201	0.3732	
104	566.4	565.7	17.25	1.188	0.3692	
105	600.	599.3	17.25	1.187	0.3689	
106	636.	635.3	17.24	1.18	0.3667	
107	672.	671.3	17.24	1.185	0.3682	
108	714.	713.3	17.23	1.167	0.3626	
10 9	756.	755.3	17.24	1.177	0.3658	
110	798.	797.3	17.23	1.169	0.3633	
111	846.	845.3	17.23	1.175	0.3651	
112	900.	899.3	17.22	1.164	0.3617	
113	948.	947.3	17.23	1.169	0.3633	
114	1008	1007	17.24	1 <i>.</i> 18	0.3667	
115	1068	1067	17.22	1.163	0.3614	
***************************************		·····	***************************************			



SLUG TEST (DW-1)

Site Name: WINDSOR MART Location: CHERAW, SC Test Date: 9/29/2014

Client: JACKSON OIL COMPANY

Project Number: 2171.9A

Import File: C:\Users\bspillane\Documents\WinSitu Data\Exported Data\windsor Mart\TA

Well Label:
Aquifer Thickness:
Screen Length:
Casing Radius:
Effective Radius:
Static Water Level:
Water Table to Screen Bottom:

DW-1
65. feet
8.33e-002 feet
8.33e-002 feet
17.19 feet
37.41 feet

Anisotropy Ratio: 1.

Time Adjustment: 1.623 Seconds

Test starts with trial 3

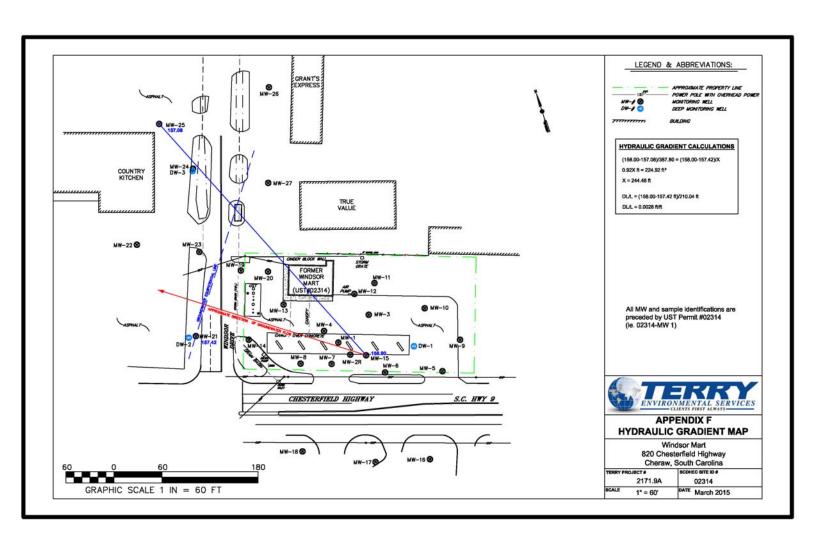
There are 108 time and drawdown measurements

Maximum head is 1.044 feet Minimum head is -1.202 feet

Trial	Time	Adjusted Time	Drawdown	Head	Head Ratio
	(Seconds)	(Seconds)	(feet)	(feet)	
1	0.	-1.623	15.99	-1.202	-1.151
2	0.251	-1.372	16.07	-1.124	-1.077
3	0.708	-0.915	16.54	-0.6479	-0.6207
4	0.928	-0.695	18.23	1.044	1.
5	1.147	-0.476	17.48	0.293	0.2807
6	1.623	0.	17.6	0.4146	0.3972
7	1.843	0.22	17.65	0.4626	0.4432
8	2.063	0.44	17.64	0.4508	0.4319
9	2.564	0.941	17.62	0.4253	0.4075
10	2.783	1.16	17.63	0.4361	0.4178
11	3.003	1.38	17.65	0.4616	0.4422
12	3.517	1.894	17.63	0.4449	0.4263
13	3.737	2.114	17.61	0.4244	0.4066
14	3,956	2.333	17.64	0.4498	0.431
15	4.484	2.861	17.61	0.4155	0.3981
16	4.704	3.081	17.61	0.4165	0.399
17	4.923	3.3	17.63	0.4351	0.4169
18	5.466	3.843	17.6	0.4067	0.3897
19	5.688	4.065	17.6	0.4116	0.3944
20	5.907	4.284	17.61	0.4234	0.4056
21	6.461	4.838	17.61	0.4204	0.4028
22	6.68	5.057	17.59	0.4028	0.3859
23	6.901	5.278	17.61	0.4214	0.4037
24	7.468	5.845	17.6	0.4126	0.3953
25	7.688	6.065	17.62	0.4253	0.4075
26	7.909	6.286	17.62	0.4293	0.4113
27	8.489	6.866	17.6	0.4097	0.3925
28	8.71	7.087	17.59	0.4008	0.384
29	8.931	7.308	17.62	0.4253	0.4075
30	9.522	7.899	17.6	0.4106	0.3934
31	9.743	8.12	17.6	0.4067	0.3897
32	9.964	8.341	17.59	0.3959	0.3793
33	10.18	8.562	17.6	0.4126	0.3953

34	10.5	8.88	17.59	0.4028	0.3859
35	10.72	9.101	17.6	0.4057	0.3887
36	11.28	9.658	17.6	0.4067	0.3897
37	11.94	10.32	17.59	0.4018	0.385
38	12.66	11.04	17,59	0.3969	0.3803
39	13.44	11.82	17.59	0.4038	0.3868
40	14.22	12.6	17.58	0.391	0.3746
41	15.06	13.44	17.59	0.3959	0.3793
42	15.96	14.34	17.59	0.4008	0.384
43	16.92	15.3	17.58	0.394	0.3774
44	17.88	16.26	17.59	0.3999	0.3831
45	18.96	17.34	17.58	0.394	0.3774
46	20.1	18.48	17.58	0.391	0.3746
47	21.3	19.68	17.58	0.3881	0.3718
48	22.56	20.94	17.53	0.344	0.3296
49	23.88	22.26	17.56	0.3734	0.3577
50	25.32	23.7	17.56	0.3714	0.3559
51	26.82	25.2	17.56	0.3744	0.3587
52	28.38	26.76	17.56	0.3705	0.3549
53	30.23	28.6	17.55	0.3567	0.3418
54	32.03	30.41	17.54	0.3469	0.3324
55	33.91	32.29	17.52	0.3342	0.3202
56	35.84	34.22	17.54	0.3508	0.3361
57	37.86	36.24	17.53	0.345	0.3305
58	40.08	38.46	17.55	0.3558	0.3408
59	42.48	40.86	17.55	0.3558	0.3408
60	45.	43.38	17.54	0.3528	0.338
61	47.64	46.02	17.54	0.3528	0.338
62	50.46	48.84	17.53	0.341	0.3267
63	53.46	51.84	17.52	0.3283	0.3145
64	56.64	55.02	17.51	0.3244	0.3108
65	60.	58.38	17.51	0.3205	0.307
66	63.6	61.98	17.51	0.3195	0.3061
67	67.2	65.58	17.51	0.3185	0.3051
68	71.4	69.78	17.52	0.3283	0.3145
69	75.6	73.98	17.5	0.3058	0.2929
70	79.8	78.18	17.49	0.3018	0.2892
71	84.6	82.98	17.48	0.295	0.2826
72	90.	88.38	17.48	0.293	0.2807
73	94.8	93.18	17.48	0.2901	0.2779
74	100.8	99.18	17.47	0.2773	0.2657
75	106.8	105.2	17.47	0.2754	0.2638
76	112.8	111.2	17.46	0.2695	0.2582
77	119.4	117.8	17.45	0.2607	0.2497
78	126.6	125.	17.45	0.2607	0.2497
79	134.4	132.8	17.45	0.2577	0.2469
80	142.2	140.6	17.43	0.2372	0.2272
81	150.6	149.	17.41	0.2234	0.2141
82	159.6	158.	17.43	0.2421	0.2319
83	169.2	167.6	17.4	0.2136	0.2047
84	178.8	177.2	17.4	0.2146	0.2056
85	189.6	188.	17.4	0.2058	0.1972
86	201.	199.4	17.38	0.1901	0.1821
87	213.	211.4	17.39	0.2029	0.1943
88	225.6	224.	17.36	0.1744	0.1671
89	238.8	237.2	17.36	0.1695	0.1624
90	253.2	251.6	17.34	0.1529	0.1465

91	268.2	266.6	17.33	0.1421	0.1361	
92	283.8	282.2	17.33	0.1362	0.1305	
93	300.6	299.	17.31	0.1195	0.1145	
94	318.6	317.	17.31	0.1215	0.1164	
95	337.3	335.6	17.29	0.1009	9.669e-002	
96	357.6	356.	17.28	9.406e-002	9.012e-002	
97	378.6	377.	17.27	7.74e-002	7.416e-002	
98	400.8	399.2	17.25	6.172e-002	5.913e-002	
99	424.8	423.2	17.25	5.976e-002	5.725e-002	
100	450.	448.4	17.22	2.546e-002	2.439e-002	
101	476.4	474.8	17.21	2.056e-002	1.969e-002	
102	504.6	503.	17.2	7.815e-003	7.487e-003	
103	534.6	533.	17.19	-1.006e-003	-9.64 e- 004	
104	566.4	564.8	17.17	-2.453e-002	-2.35e-002	
105	600.	598.4	17.16	-3.335e-002	-3.195e-002	
106	636.	634.4	17.13	-5.785e-002	-5.543e-002	
107	672.	670.4	17.14	-4.707e-002	-4.51e-002	
108	714.	712.4	17.1	-8.529e-002	-8.172e-002	



APPENDIX G

Disposal Manifests

TERRY Environmental Services, Inc. Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, <u>110</u> gallons of drilling decontamination water and well development water were processed on-site via a portable granular activated carbon (GAC) unit and released to the surface within the area of the known petroleum contamination plume November 4-8, 2014 and January 27-30, 2015.

Windsor Mart
Cheraw, South Carolina
SCDHEC UST Permit No.: 02314





TERRY Environmental Services, Inc. Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, <u>54.75</u> gallons of petroleum contaminated purge water and/or by-products from cleaning and decontamination were processed on-site via a portable granular activated carbon (GAC) unit and released to the surface within the area of the known petroleum contamination plume on September 26, 2014, September 29, 2014, November 6, 2014, and February 2, 2015.

Windsor Mart

Cheraw, South Carolina

SCDHEC UST Permit No.: 02314





NON-HAZARDOUS WASTE MANIFEST

Ple	ase print or type (Form designed for use on elite (NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID	No.		Manifest Document No.		2. Page 1 (
	3. Gaparator's Name and Mailing Address	r ,,					·····
	WINDS ON MART BZU CHEST ERFIEL 4. Generator's Phone (CHEST	D Hay					
	5. Transporter 1 Company Name	6. 1	US EPA ID Numb		A. State Transpor	nter's ID Phone 9/6 6	(10-7/12
	HERR, FWL 7. Transporter 2 Company Name		US EPA ID Numb		C. State Transpor	·······	Y C LCGO /
	Y Transporter to Stripting Transport	ĺ			D. Transporter 2		
	9. Designated Facility Name and Site Address	10	. US EPA ID Numt	er	E. State Facility's		
	HEM, FUL 820 CHESTERFIELD 11. WASTE DESCRIPTION	Hwy 1076 NC			F. Facility's Phon	e	
	11. WASTE DESCRIPTION			12. C No.	ontainers Type	13. Total Quantity	14. Unit Wt./Vol.
	a.		,		Boa	9	3.2 3
C	So,7 cuthy	7 /			1000	<u> </u>	
G E N	1						
E R A	c.						
T							
R	ď.						
2	G. Additional Descriptions for Materials Listed Abov					les for Wastes Listed Ab	
ON-HAZARDOUS WAS I							
NON-HAZ	15. Special Handling Instructions and Additional Info 16. GENERATOR'S CERTIFICATION: I hereby continuous condition for transport. The materials of the condition in proper condition for transport.	tify that the contents of this s	hipment are fully and accurate not subject to federal hazard	ely described and are i ous waste regulations.	n all r o spects		216US
	Printed/Typed Name		Signature	1		Λź	onth Day Yea
Ţ	17. Transporter 1 Acknowledgement of Receipt of N	laterials	57	1			Date
RANSP	SIM Ten	sen	Signatu	4		A.s.	onth Day Yes 2 16 /5
ORTER	18. Transporter 2 Acknowledgement of Receipt of N Printed/Typed Name	laterials	Signature	T		M	Date Ionth Day Yes
F A C	19. Discrepancy Indication Space						
L	20 Facility Owner or Operator, Certilication of recen	of the waste materials cover	end by this manlest, except	as noted in item 19			Date
T	Programme		Signature	me de la companya della companya della companya de la companya del	**************************************		lanth Day Yea
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	JBR Environm		(954) 592	7717			U S EPA ID Number				
	nsporter 2 Company Nam		(864) 583-	2/1/			SCR000004 U S EPA ID Numbe				
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		5 Generator's Name and Mas Windsor Mart	aking Address		Generator's Site Addres	s (il different l	than making addi	ress)	
			Hwy, Cheraw, SC						
		Generator's Phone.		1					
		6 Transporter 1 Company Na	mental Services (864) 583	1			U S EPA ID		
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		7 Transporter 2 Company Na					USEPAID	Number	
	JBR Environmental Services 210 Alice St. Spartanburg, SC 29303 (864) 583-2717								
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APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements

RIGHT OF ENTRY

representative find is hereby grant	certify that I am the legal owner or the authorized or <u>Kand Associates LLC</u> (owner) of the property described below. Permission ed to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the perty for the following purposes:
Name of Facilit	cy: Commercial Property (Cheraw Bojangles) Property as defined by Tax Parcel #259-000-000-064 Location: Chesterfield Hwy, Cheraw SC Deed Book: - Deed Page: - Plat Book: - Plat Page: - Acres: 0.76
installation, san	of environmental assessment activities including groundwater boring, well appling, and/or testing as directed by the South Carolina Department of Health and Control (SCDHEC) Bureau of Underground Storage Tank Management.
	erform its work on the Property in a good and workmanlike manner, and will keep od maintenance and repair while they are installed on the Property.
monitoring well days of written	C determines "No Further Action" is required at the Windsor Mart site, the Is on your property will be removed. TERRY will complete the work within 60 notice from SCDHEC and will restore the Property to the same condition as a immediately surrounding the well (i.e. asphalt, concrete, or turf).
Name:	Denna KEITH Denna Kirk
Telephone #: _	704-391-104/

Terry Project: <u>Jackson Oil Co. Windsor Mart - 2171.9A</u>

Witness:

Date

843 - 873-8765

RIGHT OF ENTRY

I, Jaym, Killy	certify that	I am	the legal	owner or	the auth	norized
representative for CMC Buildin	ig Supply. In	<u>oc.</u> own	er) of the	property d	escribed.	below.
Permission is hereby granted to TEF	RY Environ	nental S	ervices, Inc	. (TERRY)	and its ag	gents to
enter the referenced property for the	following pu	moses:				

Name of Facility:

Commercial Property

Property as defined by Tax Parcel #258-013-002-005

Location: Chesterfield Hwy, Cheraw SC

Deed Book: Deed Page: Plat Book: Plat Page: Acres: 0.266

Performance of environmental assessment activities including groundwater boring, well installation, sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner, and will keep the Wells in good maintenance and repair while they are installed on the Property.

Once SCDHEC determines "No Further Action" is required at the Windsor Mart site, the monitoring wells on your property will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).

Name:

Signature:

Telephone #:

Witness:

Date

842-537-363)

alexante

Terry Project: <u>Jackson Oil Co. Windsor Mart - 2171.9A</u>

RIGHT OF ENTRY

I, certify that I am the legal owner or the	e authorized Permission
is hereby granted to TERRY Environmental Services, and Caraman Ser	
referenced property for the following purposes:	

Name of Facility:

Commercial Property

Property as defined by Tax Parcel #258-013-001-003

Location: Chesterfield Hwy, Cheraw SC

Deed Book: -Deed Page: -Plat Book: -Plat Page: -Acres: 0.266

Performance of environmental assessment activities including groundwater boring, well installation, sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner, and will keep the Wells in good maintenance and repair while they are installed on the Property.

Once SCDHEC determines "No Further Action" is required at the Windsor Mart site, the monitoring wells on your property will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).

Name:	I.B. Merriman Jo
Signature:	23/2_0
Telephone #:	843-673-6217 Home
Witness:	The Coulombes
Date (1-12-15

Terry Project: Jackson Oil Co. Windsor Mart - 2171.9A

RIGHT OF ENTRY

I, Chizing 1	5. Home	certify	that 1	am	the	legal	owner	01'	the a	authorize
representative for	Hutto Brothe	rs LLP (ow	ner) of	the m	coper	tv desc	ribed b	elow.	Per	mission i
nereby granted to	TERRY Env	ironmental S	Services	, Inc.	(TE	RRY)	and its	agen	its to	enter the
referenced propert	y for the follo	wing purpose	es:			ŕ		_		

Name of Facility:

Commercial Property (Jiffy Lube)

Property as defined by Tax Parcel #259-000-000-073

Location: Chesterfield Hwy, Cheraw SC

Deed Book: -Deed Page: -Plat Book: -Plat Page: -Acres: 0,266

Performance of environmental assessment activities including groundwater boring, well installation, sampling, and/or testing as directed by the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank Management.

TERRY will perform its work on the Property in a good and workmanlike manner, and will keep the Wells in good maintenance and repair while they are installed on the Property.

Once SCDHEC determines "No Further Action" is required at the Windsor Mart site, the monitoring wells on your property will be removed. TERRY will complete the work within 60 days of written notice from SCDHEC and will restore the Property to the same condition as exists in the area immediately surrounding the well (i.e. asphalt, concrete, or turf).

Name: 613484 £. HVTTD

Signature: 643 230 4972

Witness: 620 6 204

Date 9-8-2014

Terry Project: Jackson Oil Co. Windsor Mart - 2171.9A

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION Encroachment Permit

Permit No: 170474

Permit Decision Date: 6/23/2014

Expiration Date: 6/23/2015

3:00:44 PM

Type

Permit: ENVIRONMENTAL

Location:

District Work County Begin MP End MP Type Route <u>Aux</u> Chesterfield, SC S-341 None 1.573 1.585 9 Chesterfield, SC SC None 36.061 36.214

Contact Information

Applicant: TerryEnvironmental

Phone: 8438738200

Contact: Kelly Cone Address: PO Box 25,

City: Summerville

State: SC

Zip: 29484

Comments

Requesting access along the north side of Chesterfield Highway (SC-9) and the east side of Windsor Drive. No borings or wells are proposed in the travel lanes. This work is being conducted as part of an environmental assessment directed by SCDHEC.

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.

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.

0306 - TRAFFIC CONTROL, LIGHTS, SIGNS AND FLAG-MEN WILL BE FURNISHED BY APPLICANT AND WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

0318 - THE APPLICANT SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.

Page: 1 of 1

Permit Number: 170474

Application for Encroachment Permit

S.C. Department of Transportation Form 637 (Rev 05/2013)

Contact Information

Applicant:

Terry Environmental

Street:

PO Box 25

City:

Summerville

State:

SC

Zip Code: 29484

Phone:

(843) 873-8200

Fax:

(843) 873-8765

Email:

kcone@terryenvironmental.com

Contact:

Kelly Cone

Project Location

Primary County:

Chesterfield

County

Road Name

Chesterfield, SC

WINDSOR DRIVE

Chesterfield, SC

SC-9

1. Type of Encroachment:

ENVIRONMENTAL

Requesting access to install seven (7) borings and seven (7) groundwater monitoring wells in the ROW adjacent to Chesterfield Highway (SC-9) and Windsor Drive in Cheraw, SC. * Per SCDHEC Request

2. Description of Location:

Requesting access along the north side of Chesterfield Highway (SC-9) and the east side of Windsor Drive. No borings or wells are proposed in the travel lanes. This work is being conducted as part of an environmental assessment directed by SCDHEC.

(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.)

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/her/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.

pplicant's Name: pplicant's Sig:	Kelly Cone (Please print or type)	Date: Title:	5/30/2014 Project Manager
	For Office Use On	l <u>y</u>	
stated in the application approves your application.	your request and subject to all the provision ation and the general and special provisions ication for an encroachment permit. This pented herein shall have been completed prior t	attached hereto, t rmit shall become i	he SCDOT hereby
See attached Specia	al Provision and/or Permit Requirements		
	NPDES Permit		
	ALDED Leinin		
	Nhr: / AAA	L	23-14
(Date received by res. Ma	Nhr: 1 Was	<u>[~</u>	23-14 (Date)
(Date received by res. Ma ☐ Resident Maintenance	int, Engr.) Nhr: MscDOT Approval)	<u>L</u> ✓ □Deputy Secre	23–14 (Date) tary for Engineering

<u>Application for Encroachment Permit</u> General Provisions

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

- 1. 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 payement 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 aid trees, plants, flowers, etc.

14. AS-B 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

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9A

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,	X		
4	telephone number, and certification number provided?	Λ		
5	Is the name, address, telephone number, and certification number of the well	X		
J	driller that installed borings/monitoring wells provided?	Λ		
6	Is the name, address, telephone number, and certification number of the certified	X		
0	laboratory(ies) performing analytical analyses provided?			
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		
10	Have the monitoring wells been labeled in accordance with the UST QAPP	37		
19	guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been	v		
21	provided?	X		
22	Has the purging methodology been detailed?	X		
22	Has the volume of water purged from each well been provided along with	v		
23	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
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
20	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk			v
30	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		

Item #	Item	Yes	No	N/A
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 Fig 4		X Fig 3
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)	X		
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)	X		
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)	X		
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)	X		
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)	X		
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

MR CHARLES JACKSON JACKSON OIL COMPANY PO BOX 968 CHERAW SC 29520-0968

MAR 2 5 2015



Re: Site Specific Work Plan (SSWP) Request

Windor Mart, 820 Chesterfield Highway, Cheraw, SC

UST Permit #02314

Release Reported December 6, 1991 Tier II Report Received March 13, 2015

Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Terry Environmental Services, Inc., as your contractor. The next appropriate scope of work at the site is the installation of three 4-inch recovery wells and two Aggressive Fluid Vapor Recovery (AFVR) events.

The recovery wells should be installed in the proposed locations depicted on the enclosed figure. They will be 4 inches in diameter and installed to a depth of 30 feet. These wells will be screened from 10 feet to 30 feet.

After installation of the recovery wells is completed, two 96-hr AFVR events should be conducted at the site back to back. The first AFVR event should be conducted on wells MW-1, MW-4, MW-7 and newly installed recovery well RW-1. The second AFVR event should be conducted on MW-3 and newly installed recovery wells RW-2 and RW-3. Well installation and AFVR activities should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0 and must be conducted in compliance with all applicable regulations. A copy of the Agency QAPP Revision 2.0 for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPP Rev-2 April2013.pdf.

Please have your contractor complete and submit the Site Specific Work Plan (SSWP) and Cost Proposal within thirty (30) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial preapproval from the Agency must be issued before work begins.

Page 2

On all correspondence concerning this site, please reference UST Permit #02314. If there are any questions concerning this project, please contact me at (803) 898-0607 or by email at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash, Hydrogeologist

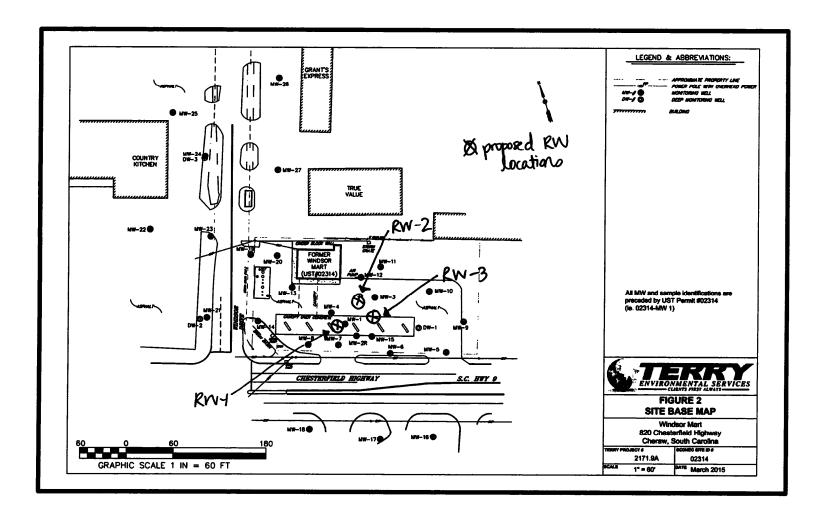
Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc: Site Map with Proposed Recovery Well Locations

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc.)

Technical File (w/ enc.)





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

APR 1 0 2015

To: Ashleigh Thrash		- -	(SCDHEC Project Manager)
From: Tim Mettlen			(Contractor Project Manager)
Contractor: Terry Environment	al Services UST	Contractor Certification Number	UCC-0223
Facility Name: Windsor Mart		UST Pe	
Facility Address: 820 Chester			
Responsible Party: Jackson C	il Company, Inc.	Phone	843-537-7080
RP Address: PO Box 968, Che	raw, South Carolina 29520		
Property Owner (if different):			1 111.1201
Property Owner Address: n/a			
Current Use of Property: Gar	s Station and Convenience Sta	ore (Corner Cupboard)	CAE (
Scope of Work (Please che			
□ IGWA □ Ti		☐ Groundwater Samp	ling GAC
☐ Tier I ☐ M	lonitoring Well Installation	☑ Other Reco	overy well installation & AFVRs
Analyses (Please check all t	hat apply)		
Groundwater/Surface Water:			
☐ BTEXNMDCA (8260B)	□ Lead	□ BOD	☐ Methane
Oxygenates (8260B)		□ Nitrate	☐ Ethanol
□ EDB (8011)		☐ Sulfate	☐ Dissolved Iron
□ PAH (8270D)	□ pH	Other	
Soil:			
□ BTEXN	□ 8 RCRA Metals	☐ TPH-DRO (3550B/8	·
□ PAH	☐ Oil & Grease (9071)	☐ TPH-GRO (5030B/8	015B) 🗆 TOC
Air:			
□ BTEXN			
•	· · · · · · · · · · · · · · · · · · ·	f each matrix that are expected t	•
Soil	Water Sup		Field Blank
Monitoring Wells	Surface \	Water Duplic	ateTrip Blank
Field Screening Methodolog	av		
· · · · · · · · · · · · · · · · · · ·		nt, and include their proposed lo	cations 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 Well	<u> </u>		
		II, and include their proposed loc	ations on the attached map.
# of shallow wells: Three 4 inc	•	timated Footage: 90	
		timated Footage:	
			feet per point
Monitoring Well development			
Comments, if warranted:		<i>,</i> ,	
			

UST Permit #: 02314 Facili	ility Name: Windsor Mart	_
Implementation Schedule (Number of cale Field Work Start-Up: May 2015 Report Submittal: July 2015	lendar days from approval) Field Work Completion: June 2015 # of Copies Provided to Property Owners: n/a	_
Aquifer Characterization Pump Test: Slug Test: (Check one	e and provide explanation below for choice)	
Investigation Derived Waste Disposal Soil: 5 To	ions Purge Water: 55 Gallo	ons
Soil: 5 To Drilling Fluids: 55 Ga	Gallons Free-Phase Product: Gall	ons
Additional Details For This Scope of Work For example, list wells to be sampled, wells t event, etc. Also complete 2 96 hour AFVR events.	rk to be abandoned/repaired, well pads/bolts/caps to replace, details of AFV	R — — — — — — — — — — — — — — — — — — —
	Yes/No) If no, indicate laboratory information below. Yes/No) If no, indicate driller information below.	
		_ _ _ _
Attachments 1. Attach a copy of the relevant portion	n of the USGS topographic map showing the site location.	
must include the following: North Arrow Location of property lines Location of buildings Previous soil sampling locations	Proposed monitoring well locations Legend with facility name and address, UST permit number, and bar scal Streets or highways (indicate names and numbers) Location of all present and former ASTs and USTs Location of all potential receptors ement, SCDHEC Form D-3664	e



South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
May 15, 2014

Facility Name: Windsor Mart

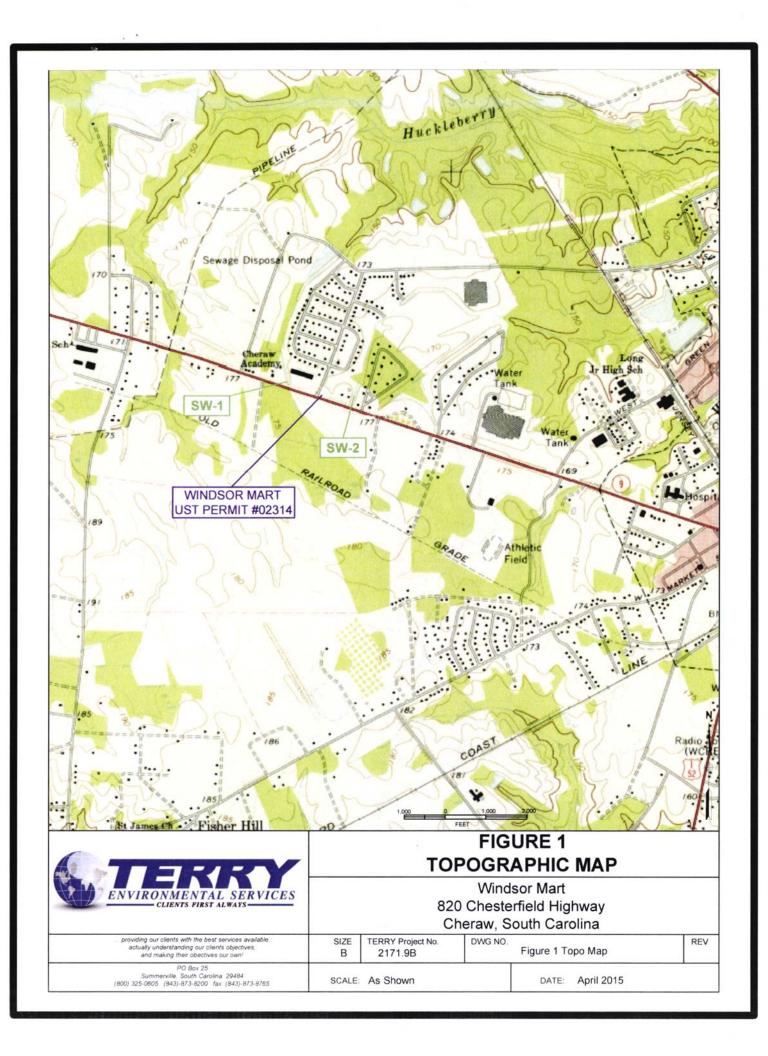
UST Permit #: 02314	Cost A	greement #:	Proposal							
ITEM	QUANTITY	UNIT	UNIT PRICE	1	TOTAL					
1. Plan Preparation										
A1. Site-specific Work Plan	1	each	\$150.00		\$150.00					
B1. Tax Map		each	\$70.00		\$0.00					
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00		\$0.00					
2. A1. Receptor Survey *		each	\$551.00		\$0.00					
3. Survey (500 ft x 500 ft)										
A1. Comprehensive Survey		each	\$1,040.00		\$0.00					
B. Subsurface Geophysical Survey										
1B. < 10 meters below grade		each	\$1,300.00		\$0.00					
2B. > 10 meters below grade		each	\$2,310.00		\$0.00					
C1. Geophysical UST or Drum Survey		each	\$910.00		\$0.00					
4. Mob/Demob				M (M)						
A1. Equipment	3	each	\$1,020.00		\$3,060.00					
B1. Personnel	6	each	\$423.00		\$2,538.00					
C1. Adverse Terrain Vehicle		each	\$500.00		\$0.00					
5. A1. Soil Borings (hand auger)*		foot	\$5.00		\$0.00					
6. Soil Borings (requiring equipment, push technol										
Field Screening (including water sample, soil sa	mple, soil gas	sample, etc.)*								
AA. Standard		per foot	\$15.00		\$0.00					
C1. Fractured Rock		per foot	\$20.20	W.JA	\$0.00					
7. A1. Soil Leachability Model		each	\$60.00		\$0.00					
8. Abandonment (per foot)*										
A1. 2" diameter or less		per foot	\$3.10		\$0.00					
B1. Greater than 2" to 6" diameter		per foot	\$4.50		\$0.00					
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00		\$0.00					
9. Well Installation (per foot)*										
A1. Water Table (hand augered)		per foot	\$10.60		\$0.00					
B1. Water Table (drill rig)		per foot	\$38.00		\$0.00					
CC. Telescoping		per foot	\$50.00	APRIL	\$0.00					
DD. Rock Drilling		per foot	\$58.00		\$0.00					
E1. 2" Rock Coring		per foot	\$30.90		\$0.00					
G1. Rock Multi-sampling ports/screens		per foot	\$33.40		\$0.00					
HH. Recovery Well (4" diameter)	90	per foot	\$45.00		\$4,050.00					
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00		\$0.00					
J1. Rotosonic (2" diameter)		per foot	\$44.00		\$0.00					
K. Re-develop Existing Well		per foot	\$11.00		\$0.00					
10. Groundwater Sample Collection / Gauge Depth	to Water or Pi				<u> </u>					
A1. Groundwater Purge		per well/receptor	\$60.00		\$0.00					
B1. Air or Vapors		per receptor	\$12.00		\$0.00					
C1. Water Supply		per well/receptor	\$22.00		\$0.00					
D1. Groundwater (No Purge or Duplicate)		per well/receptor	\$28.00		\$0.00					
E1. Gauge Well only		per well	\$7.00		\$0.00					
F1. Sample Below Product		per well	\$12.00		\$0.00					
G1. Passive Diffusion Bag		each	\$26.00		\$0.00					
H1. Field Blank		each	\$24.60		\$0.00					

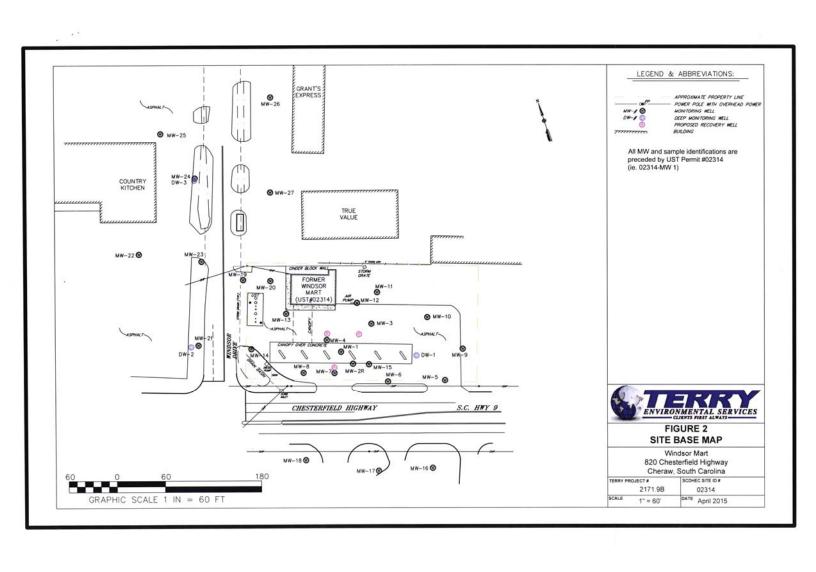
11. Laboratory Analyses-Groundwater	-			PR 196	Pag
	1				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	\$122.00		\$0.00
AA1. Lead, Filtered		per sample	\$13.80	12	\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0.00
D1. PAH's	1	per sample	\$60.60		\$0.00
E1. Lead		per sample	\$16.00		\$0.00
F1. EDB by EPA 8011		per sample	\$45.20		\$0.00
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00
II. pH		per sample	\$5.20		\$0.00
J1. BOD		per sample	\$20.00		\$0.00
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Soil		per campio	011.00		Ψ0.00
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's		per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		l ' '
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		1 ' '	1		\$0.00
W1. Grain size/hydrometer		per sample	\$35.96		\$0.00
1		per sample	\$104.00		\$0.00
X1. Total Organic Carbon 11. Analyses-Air	-	per sample	\$30.60		\$0.00
•					
Y1. BTEX + Naphthalene		per sample	\$216.00		\$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per test	\$191.00		\$0.00
C1. Fractured Rock		per test	\$100.00		\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00		\$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation			·		77
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*		each	\$260.00		\$0.00
17. Disposal (gallons or tons)*			7200.00		Ψ0.00
AA. Wastewater	55	gallon	\$0.56		\$30.80
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal	2	ton	\$60.00		\$120.00
D1. Drilling fluids	55	gallon	\$0.42		\$23.10
18. Miscellaneous (attach receipts)	33	gallott	Ψ0.42		\$23.10
(mineral families)		ozob	¢0.00		60.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)	-	each	\$0.00		\$0.00
		standard			\$0.00
21. IGWA (Use DHEC 3666 form) 22. Corrective Action (Use DHEC 3667 form)		standard			\$0.00
22. GOLLECTIAE WORDING (OSE DIDEC 3001 TOLLI)	L	PFP Bid			\$0.00

					Page
23. Aggressive Fluid & Vapor Recovery (AFVR)					
A1. 8-hour Event*		each	\$1,375.00		\$0.00
AA. 24-hour Event*		each	\$3,825.00		\$0.00
A3. 48-hour Event*		each	\$6,265.00		\$0.00
A4. 96-hour Event*	2	each	\$12,567.50		\$25,135.00
C1. Off-gas Treatment 8 hour		per event	\$122.50		\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50		\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00		\$0.00
C4. Off-gas Treatment 96 hour	2	per event	\$780.00		\$1,560.00
D. Site Reconnaissance	2	each	\$203.25		\$406.50
E1. Additional Hook-ups		each	\$25.75		\$0.00
F1. Effluent Disposal		gallon	\$0.44		\$0.00
G. AFVR Mobilization/Demobilization	2	each	\$391.50		\$783.00
24. Granulated Activated Carbon (GAC) filter syste	m installation	& service:			
A1. New GAC System Installation*		each	\$1,900.00		\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00		\$0.00
C1. Filter replacement/removal*		each	\$350.00		\$0.00
DD. GAC System removal, cleaning, & refurbishme	nt*	each	\$275.00		\$0.00
E1. GAC System housing*		each	\$250.00		\$0.00
F. In-line particulate filter		each	\$150.00		\$0.00
G1. Additional piping & fittings		foot	\$1.50		\$0.00
25. Well Repair					
A1. Additional Copies of the Report Delivered		each	\$50.00		\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00		\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00		\$0.00
D1. Repair well vault*		each	\$118.00		\$0.00
F1. Replace well cover bolts		each	\$2.60		\$0.00
G. Replace locking well cap & lock		each	\$15.00		\$0.00
H1. Replace/Repair stick-up*		each	\$134.00		\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00		\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00		\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00		\$0.00
Report Prep & Project Coordination	12%	percent	\$37,856.40		\$4,542.77
TOTAL				400	\$42,399.17

^{*}The appropriate mobilization cost can be added to complete these tasks, as necessary.

DHEC







W. Marshall Taylor Jr., Acting Director

Personalizing and protecting the besitebout the public and the communitient

MR CHARLES JACKSON JACKSON OIL COMPANY PO BOX 968 CHERAW SC 29520-0968

APR 2 8 2015

US 13teh

Re:

Recovery Well Installation and AFVR directive Windsor Mart 820 Chesterfield Highway, Cherry

Windsor Mart, 820 Chesterfield Highway, Cheraw, SC

UST Permit #02314; CA #50155 Release Reported December 6, 1991

Site Specific Work Plan Received April 1, 2015

Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Terry Environmental Services, Inc. This scope of work will include the installation of recovery wells and Aggressive Fluid & Vapor Recovery (AFVR) to remove residual free-phase product and reduce dissolved Chemicals of Concern (CoCs). All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 2.0, and must be conducted in compliance with all applicable regulations. A copy of the Agency's QAPP Rev. 2.0, for the UST Management Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Cost agreement #50155 has been approved for the amount shown on the enclosed cost agreement form for the installation of 3 recovery wells and two 48-hour AFVR events. Recovery well installation activities should begin immediately upon receipt of this letter. The three recovery wells will be installed in the approved locations depicted on the enclosed figure. They will be 4 inches in diameter and installed to a depth of 30 feet. These wells will be screened from 10 feet to 30 feet.

After the installation of the recovery wells, two 48-hr AFVR events should be conducted at the site back to back. The first AFVR will be conducted on RW-1, RW-2, and MW-1. The last AFVR event should be conducted on MW-3 and RW-3. The stingers shall be lowered at six inch intervals starting at the water table interface to the estimated historical low water table elevation for each well. Stingers should be placed as to maximize FP and/or vapor recovery. All well installation and AFVR activities should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0 and must be conducted in compliance with all applicable regulations.

The AFVR & Monitoring Report and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. It should also contain SCDHEC Form 1903 and monitoring well logs for the newly installed recovery wells. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

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

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

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

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

On all correspondence regarding this site, please reference **UST Permit #02314 and CA #50155**. If you have any questions, please contact me by telephone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484

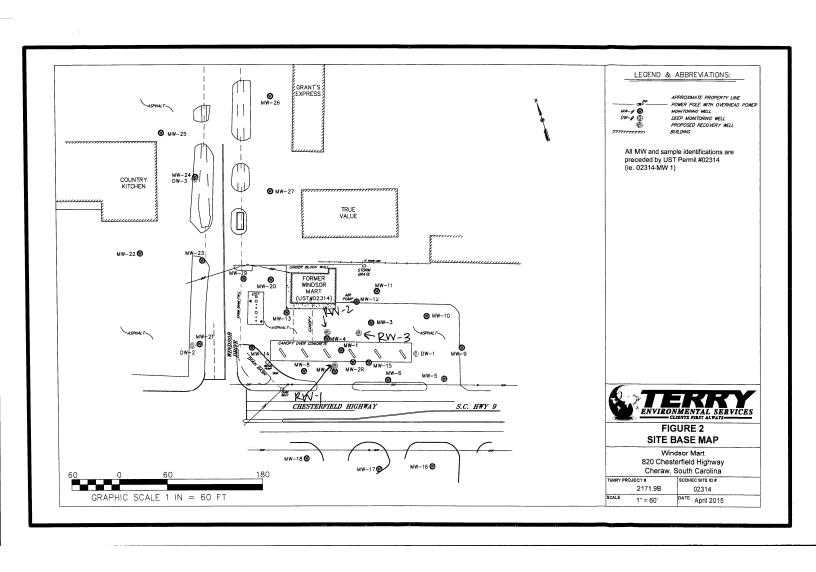
Technical File

Approved Cost Agreement 50155 Facility: 02314 MANETI KUNDAL DBA COUNTRY CUPBOARD 7

THRASHAM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN				
:	A1 SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
04 MOB/DEMOB				
	A1 EQUIPMENT	1.0000	1,020.00	1,020.00
	B1 PERSONNEL	2.0000	423.00	846.00
09 WELL INSTALLATION				
	HH RECOVERY WELL (4 INCH DIA)	90.0000	45.00	4,050.00
17 DISPOSAL		·		
	AA WASTEWATER	55.0000	0.56	30.80
	C1 SOIL TREATMENT DISPOSAL	2.0000	60.00	120.00
	D1 DRILLING FLUIDS	55.0000	0.42	23.10
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	29,210.15	3,505.22
23 EFR				
	A3 48 HOUR EVENT	2.0000	6,265.00	12,530.00
	C3 OFF GAS TREATMENT 48 HOUR	2.0000	327.00	654.00
	D SITE RECONNAISSANCE	1.0000	203.25	203.25
	F1 EFFLUENT DISPOSAL	20,000.0000	0.44	8,800.00
· ·	G AFVR EQUIPMENT MOB	2.0000	391.50	783.00_
		Total Amo	unt	32,715.37

April 27, 2015



Document Receipt Information

Hard Copy	CD	Email
Date Received	8/10/3	2n 15
Permit Number	02314	
Project Manage:	Ashle	igh Thrash
Name of Contractor	TERRY	Environmental
US1 Certification Numb	લ	ment
Docket Number	14 de	eh
Scanned	· · · · · · · · · · · · · · · · · · ·	
Ru) Install	+ AFVR Event Report

RECOVERY WELL INSTALLATION AND AGGRESSIVE FLUID VAPOR RECOVERY (AFVR) EVENTS REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #50155

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9B

KELLY K. CONE, PG Vice President

KK Con

JASON A. TERRY, PG President

AUGUST 2015



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Charles Jackson)

Owner/ Operator Address: PO Box 968, Cheraw, South Carolina 29520

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company, Inc.

Address: PO Box 968, Cheraw, South Carolina 29520

Telephone: 843-873-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 UCC-0223

4. Well Driller Information

Name: SAEDACCO

Address: 9088 Northfield Drive, Fort Mill, South Carolina 29707

Telephone: 803-548-2180

Certification: Robert Miller (1472-B)

5. Laboratory Information

Not Applicable

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST #	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	

Other Releases at this site? Yes No XXXX

If yes, Date Release Reported to SCDHEC n/a

Status of Release: n/a

No Further Action Date: n/a



7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1.000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. During this scope of work, depth to groundwater was measured between 17 and 20 feet below top of casing in the recovery and influence wells gauged prior to the start of each event.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.



D. MONITORING WELL INFORMATION

1. Well Installation Details

The recovery well locations were specified by the SCDHEC UST Project Manager in the Recovery Well Installation and AFVR Directive dated April 28, 2015. On June 18, 2015, three (3) four-inch recovery wells (RW-1 through RW-3) were installed in accordance with the South Carolina Well Standards and Regulations. The wells were installed by SAEDACCO using hollow stem auger (HSA) techniques. Well Construction Logs are provided in Appendix E. The soil cuttings were initially stored in 55-gallon drums onsite. The soil cuttings were properly disposed of by JBR Environmental Services on June 26, 2015. The disposal manifest is provided in Appendix G.

2. Well Development Procedures

A clean purge pump with new, disposable tubing was utilized for developing the newly installed recovery wells. Development was considered complete once enough drilling mud and/or fluids were removed to provide relatively sediment-free groundwater that appeared typical of the aquifer. The well development water generated was disposed of via processing through a granular-activated-carbon (GAC) unit in accordance with the NPDES General Permit No. SCG830000.

3. Well Location Justification

The recovery wells (RW-1 through RW-3) were installed to aid in the extraction of free-phase product and source area contaminated groundwater during AFVR Events.



E. GROUNDWATER DATA

Not Applicable. No groundwater samples were collected during this scope of work.



F. AFVR INFORMATION

1. Scope of Work

As directed by SCDHEC, two (2) consecutive 48-hour continuous AFVR Events were performed; between July 27, 2015 and July 29, 2015 event one was conducted on monitoring/recovery wells MW-1, RW-1, and RW-2; between July 29, 2015 and July 31, 2015 event two was conducted on monitoring/recovery wells MW-3 and RW-3. TERRY Exploration Services, LLC performed the AFVR events under the supervision of TERRY Environmental Services, Inc.

2. AFVR Emissions Table

AFVR Emissions Table (Event 1) - Attached

AFVR Emissions Table (Event 2) - Attached

Extraction Well Stinger Depth Table (Event 1) – Attached

Extraction Well Stinger Depth Table (Event 2) - Attached

3. Vacuum Data Table

Vacuum Data Table (Event 1) - Attached

Vacuum Data Table (Event 2) – Attached

4. Volume of Water Recovered

15,360 gallons of fluid were recovered during the 48-hour event conducted July 27, 2015 through July 29, 2015. 10,800 gallons of fluid were recovered during the 48-hour event conducted July 29, 2015 through July 31, 2015. A total of 26,160 gallons of fluid were recovered during the two events.

5. Volume of Product Recovered

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

6. Mass of Petroleum Recovered as Vapor

50.56 pounds of volatile organic vapors (approximate equivalent of 8.09 gallons of gasoline) were recovered during the course of the 48-hour event conducted July 27, 2015 through July 29, 2015. 63.34 pounds of volatile organic vapors (approximate equivalent of 10.13 gallons of gasoline) were recovered during the course of the 48-hour event conducted July 29, 2015 through July 31, 2015. A total of 113.9 pounds of gasoline vapors (approximate equivalent

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

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7/28/2015 23:30 22.0 734 3 157.7 38.1 2,337 399 83 2040 29.13 2516.72 10066.89 4 5022.99 3.138E-04 0.55 0.63 0.1 7/29/2015 0.00 22.0 761 3 157.5 38.3 2,296 350 85 2070 30.15 2020.17 8080.70 4 4031.99 2.517E-04 0.46 0.53 0.0 7/29/2015 8:00 22.0 788 3 157.6 38.0 1,843 296 84 2550 26.87 2082.65 8330.61 4 4156.65 2.505E-04 0.42 0.48 0.0 7/29/2015 10:00 22.0 703 3 158.3 37.9 1,900 300 84 2670 27.43 2008.12 8032.47 4 4007.89 2.505E-04 0.41 0.48 0.0			U. / C. C. C. C. C. C. C. C. C. C. C. C. C.						2.00	-										0.11
7/29/2015 0:00 22.0 761 3 157.5 38.3 2,296 350 85 2070 30.15 2020.17 8080.70 4 4031.96 2.517E-04 0.46 0.53 0.0 7/29/2015 8:00 22.0 788 3 157.6 38.0 1,843 296 84 2550 26.87 2082.65 8330.61 4 4156.65 2.595E-04 0.42 0.48 0.0 7/29/2015 10:00 22.0 703 3 158.3 37.9 1,900 300 84 2670 27.43 2008.12 8032.47 4 4007.89 2.502E-04 0.41 0.48 0.0		_	-		_										_					0.10
7/29/2015 8:00 22.0 788 3 157.6 38.0 1,843 296 84 2550 26.87 2082.65 8330.61 4 4156.65 2.595E-04 0.42 0.48 0.0 7/29/2015 10:00 22.0 703 3 158.3 37.9 1,900 300 84 2670 27.43 2008.12 8032.47 4 4007.89 2.502E-04 0.41 0.48 0.0													History and the Control of the Contr		-	The second secon				0.10
7/29/2015 10:00 22.0 703 3 158.3 37.9 1,900 300 84 2670 27.43 2008.12 8032.47 4 4007.89 2.502E-04 0.41 0.48 0.0															_					0.08
															_					0.08
	7/29/2015	10:00	22.0	718	3	158.3	37.9	1,900	299	84	2670	26,47	1935.77	7743.09	4	3863.50	2.502E-04 2.412E-04	0.41	0.48	0.08
															_					0.07
The state of the s		10.00						1,50,000			2/90	CONTRACTOR OF THE			_		Residence of the second second			0.17
		0.088			5.0	104.2	30.0	4013	009	- 65	3	20.00	401.31				Illian Control Consultation Control	12.000	100000000000000000000000000000000000000	

Total Pounds of Gasoline Vapor Recovered as Emissions: 45.70
Total Pounds of Gasoline Vapor Recovered as Emissions: 50.56
Total Gallons of Gasoline Recovered as Emissions: 8.09
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

SECTION F-2A **AFVR EMISSIONS TABLE (EVENT 2)** WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

	Date: July 29-31, 2015 Average Depth to Groundwater: 17-19 ft.																**			
Date:			15																	
Site Name:															ated Zone:		Sandy Silt			
SCDHEC Si			02314									Vacuum Contractor: TERRY Exploration Services, LLC							;	
Well ID #:		MW-3, R	W-3			Blowe	r Specific	ation of	the Vacuu	m Truck (CF	M @ Hg):): 282 CFM @ 25" Hg								
	DRY	STAND	ARD CU	BIC FE	ET PEF	MINUTE	(DSCFM) CALC	ULATION	S (Qstd)			100	EM	ISSION C	ALCULAT	ION			
		Vacuum												PMR _a	PMR _a					
Date	Time	(in, Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)	7. (47.)			(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)	
7/29/2015	14:00	20.0	1,244	3	158.0	36.7	4,891	946	81	0	47.57	5361.19	21444.76	4	10700.10	6.680E-04	1.91	2.21	0.35	
7/29/2015	14:30	20.0	1,316	3	158.3	36.8	5,021	975	81	30	50.30	5503.69	22014.75	4	10984.51	6.858E-04	2.07	2.39	0.38	
7/29/2015	15:00	20.0	1,256	3	158.4	36.5	5,116	998	80	60	48.00	5607.82	22431.28	4	11192.34	6.987E-04	2.01	2.33	0.37	
7/29/2015	15:30	20.0	1,271	3	158.6	36.2	5,063	962	81	90	48.56	5549.72	22198.90	4	11076.39	6.915E-04	2.01	2.33	0.37	
7/29/2015	16:00	20.0	1,263	3	158.2	36.3	4,997	950	81	120	48.28	5477.38	21909.52	4	10932.00	6.825E-04	1.98	2.29	0.37	
7/29/2015	16:30	20.0	1,212	3	158.0	36.1	4,436	888	80	150	46.35	4862.45	19449.79	4	9704.70	6.059E-04	1.68	1.95	0.31	
7/29/2015	17:00	20.0	1,306	3	158.4	36.1	4,210	820	81	180	49.91	4614.72	18458.89	4	9210.27	5.750E-04	1.72	1.99	0.32	
7/29/2015	17:30	20.0	1,287	3	158.1	35.8	3,816	733	81	210	49.21	4182.85	16731.38	4	8348.31	5.212E-04	1.54	1.78	0.28	
7/29/2015	18:00	20.0	1,250	3	157.3	36.0	3,925	754	81	240	47.86	4302.32	17209.30	4	8586.77	5.361E-04	1.54	1.78	0.28	
7/29/2015	18:30	20.0	1,303	3	157.6	36.1	3,800	740	81	270	49.86	4165.31	16661.23	4	8313.31	5.190E-04	1.55	1.80	0.29	
7/29/2015	19:00	20.0	1,210	3	157.9	35.7	3,827	736	81	300	46.28	4194.90	16779.61	4	8372.38	5.227E-04	1.45	1.68	0.27	
7/29/2015	19:30	20.0	1,292	3	157.7	35.9	3,792	705	81	330 360	49.43	4156.54	16626.15	4	8295.81	5.179E-04	1.54	1.78	0.28	
7/29/2015			1,288	3	158.2	36.3	3,711	698	81 82	390	49.24	4067.75	16271.01	4	8118.60	5.068E-04			0.28	
7/29/2015	20:30	20.0	1,261	3	157.1	36.1 36.5	3,632	662 647	82	420	48.29 48.70	3981.16	15924.63 15604.56	4	7945.77	4.961E-04	1.44	1.66		
7/29/2015 7/29/2015	21:00	20.0	1,272	3	156.6	35.7	3,559	623	82	420 450	48.70	3901.14 3745.49	14981.95	4	7786.07 7475.42	4.861E-04 4.667E-04	1.42	1.56	0.26	
7/29/2015	22:00	20.0	1,269	3	156.8	35.4	3,281	584	82	480	48.62	3596.41	14385.66	4	7177.89	4.481E-04	1.31	1.51	0.24	
7/29/2015	23:00	20.0	1,260	3	156.3	35.4	3,197	569	82	540	48.32	3504.34	14017.36	4	6994.12	4.481E-04 4.366E-04	1.27	1.46	0.24	
7/30/2015	0:00	20.0	1,277	3	155.9	35.5	3,072	552	82	600	49.00	3367.32	13469.29	4	6720.65	4.196E-04	1.23	1.43	0.23	
7/30/2015	8:00	20.0	1,323	3	157.2	36.9	2,241	412	82	1080	50.66	2456.44	9825.74	4	4902.67	3.061E-04	0.93	1.08	0.17	
7/30/2015	9:00	20.0	1,289	3	157.9	37.1	2,020	405	80	1140	49.30	2214.19	8856.76	4	4419.18	2.759E-04	0.82	0.94	0.15	
7/30/2015	10:00	20.0	1,282	3	158.2	36,6	1,931	346	82	1200	49,01	2116.63	8466.54	4	4224.47	2.637E-04	0.78	0.90	0.14	
7/30/2015	11:00	20.0	1,276	3	158.5	36.2	1,866	322	83	1260	48.76	2045.39	8181.54	4	4082.27	2.549E-04	0.75	0.86	0.14	
7/30/2015	12:00	20.0	1,330	3	158.7	35.9	1,873	320	83	1320	50.80	2053.06	8212.23	4	4097.59	2.558E-04	0.78	0.90	0.14	
7/30/2015	13:00	20.0	1,253	3	158.8	36.2	1,720	316	82	1380	47.85	1885.35	7541.40	4	3762.87	2.349E-04	0.67	0.78	0.12	
7/30/2015	14:00	20.0	1,314	3	158.8	36.0	1,597	287	82	1440	50.18	1750.53	7002.10	4	3493.78	2.181E-04	0.66	0.76	0.12	
7/30/2015	16:00	20.0	1,277	3	158.8	36.1	1,520	279	82	1560	49.14	1644.20	6576.80	4	3281.57	2.049E-04	0.60	0.70	0.11	
7/30/2015	18:00	20.0	1,286	3	158.5	36.3	1,500	247	84	1680	46.98	1623.37	6493.49	4	3240.00	2.023E-04	0.57	0.66	0.11	
7/30/2015	20:00	20.0	1,230	3	158.7	36.0	1,481	250	83	1800	47.51	1495.13	5980.50	4	2984.04	1.863E-04	0.53	0.61	0.10	
7/30/2015	22:00	20.0	1,243	3	158.3	36.6	1,364	222	84	1920	46.51	1103.81	4415.23	4	2203.03	1.375E-04	0.38	0.44	0.07	
7/31/2015	0:00	20.0	1,216	3	157.9	36.7	1,007	191	81	2040	50.19	921.85	3687.39	4	1839.87	1.149E-04	0.35	0.40	0.06	
7/31/2015	8:00	20.0	1,309	3	156.4	37.0	841	147	83	2520	50.45	1059.96	4239.84	4	2115.52	1.321E-04	0.40	0.46	0.07	
7/31/2015	10:00	20.0	1,317	3	157.0	37.2	967	170	82	2640	47.37	802.37	3209.48	4	1601.41	9.998E-05	0.28	0.33	0.05	
7/31/2015	12:00	20.0	1,240	3	158.6	36.9	732	135	82	2760	47.98	726.74	2906.95	4	1450.45	9.055E-05	0.26	0.30	0.05	
7/31/2015	14:00	20.0	1,256	3	158.7	36.9	663	127	81	2880	47.98	726.74	2906.95	4	1450.45	9.055E-05	0.26	0.30	0.05	
Average	2	20.0	1272	3.0	157.9	36.3	2860	535	82		48.67	3134.50	12538.01	4	6255.98	3.906E-04	1.14	1.32	0.21	
Bws =	0.088	Bwsw:	0.06										Total	Pou	nds of Carb	on Recovere	ed as En	nissions:	54.74	
												To	tal Pounds	of G	asoline Van	or Recover	d as Fm	niesions.	63 34	

Total Pounds of Carbon Recovered as Emissions: 54.74

Total Pounds of Gasoline Vapor Recovered as Emissions: 63.34

Total Gallons of Gasoline Recovered as Emissions: 10.13

(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

AFVR Definitions and Equations

Qstd = (60 sec/min) (1- Bws) (velocity) (Pipe ID sq.ft.) [(528 oR / (Temp. + 460)] (Listed As Flow Above)

 $Bws = (B_{wsw} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)

 $Cc = Ccm (62.43 E - 9 lb - m^3 / mg - ft^3)$

PMRg = (PMRc) (Mg/Mcg)

Bgs = below top of casing

 $Bws = (B_{WSW} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

Qstd = (60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm³, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

 $K_3 = 24.07 \text{ dsm}^3/10^6 \text{ mg-mole}$, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K₃)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

SECTION F-2B

EXTRACTION WELL STINGER DEPTH TABLE (EVENT 1)

WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JULY 27-29, 2015

Well#	MW-1	Well #	RW-1	Well #	RW-2
Elapsed	Stinger Depth	Elapsed	Stinger Depth	Elapsed	Stinger Depth
Time	(ft)*	Time	(ft)*	Time	(ft)*
0	17.5	0	18.5	0	17.5
0.5	17.5	0.5	18.5	0.5	17.5
1	17.5	1	18.5	1	17.5
1.5	17.5	1.5	18.5	1.5	18.0
2	17.5	2	18.5	2	18.5
2.5	18.0	2.5	19.0	2.5	19.0
3	18.0	3	19.0	3	19.0
3.5	18.0	3.5	19.0	3.5	19.0
4	18.5	4	19.5	4	19.5
4.5	18.5	4.5	19.5	4.5	19.5
5	19.0	5	19.5	5	19.5
5.5	19.0	5.5	20.0	5.5	20.0
6	19.5	6	20.0	6	20.0
6.5	20.0	6.5	20.0	6.5	20.0
7	20.5	7	20.5	7	20.5
7.5	21.0	7.5	21.0	7.5	21.0
8	21.0	8	21.0	8	21.0
9	21.0	9	21.0	9	21.0
10	21.0	10	21.0	10	21.0
10.5	20.0	10.5	20.0	10.5	20.0
18.5	20.0	18.5	20.0	18.5	20.0
19.5	20.0	19.5	20.0	19.5	20.0
20.5	20.0	20.5	20.0	20.5	20.0
21.5	21.0	21.5	21.0	21.5	21.0
22.5	21.0	22.5	21.0	22.5	21.0
23.5	21.0	23.5	21.0	23.5	21.0
24	21.0	24	21.0	24	21.0
26	21.0	26	21.0	26	21.0
28	20.0	28	20.0	28	20.0
30	20.0	30	20.0	30	20.0
32	20.0	32	20.0	32	20.0
34	20.0	34	20.0	34	20.0
34.5	21.0	34.5	21.0	34.5	21.0
42.5	21.0	42.5	21.0	42.5	21.0
44.5	21.0	44.5	21.0	44.5	21.0
46.5	21.0	46.5	21.0	46.5	21.0
48	21.0	48	21.0	48	21.0

^{*}Measured relative to the top of *Measured relative to the top of the well casing.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE (EVENT 2) WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 JULY 29-31, 2015

Well#	RW-3	Well#	MW-3
Elapsed	Stinger Depth	Elapsed	Stinger Depth
Time	(ft)*	Time	(ft)*
0	17.0	0	16.0
0.5	17.0	0.5	16.0
1	17.0	1	16.0
1.5	17.0	1.5	16.0
2	17.0	2	16.5
2.5	17.0	2.5	16.5
3	17.5	3	17.0
3.5	17.5	3.5	17.0
4	17.5	4	17.0
4.5	17.5	4.5	17.5
5	18.0	5	17.5
5.5	18.0	5.5	17.5
6	18.0	6	18.0
6.5	18.0	6.5	18.0
7	18.5	7	18.5
7.5	18.5	7.5	18.5
8	18.5	8	18.5
9	18.5	9	18.5
10	18.5	10	18.5
18	18.0	18	18.0
19	18.0	19	18.0
20	18.0	20	18.0
21	18.5	21	18.5
22	18.5	22	18.5
23	18.5	23	18.5
24	18.5	24	18.5
26	18.5	26	18.5
28	18.5	28	18.5
30	18.5	30	18.5
32	18.5	32	18.5
34	18.5	34	18.5
42	18.5	42	18.5
44	18.5	44	18.5
46	18.5	46	18.5
48	18.5	48	18.5

^{*}Measured relative to the top of the well casing.

SECTION F-3

VACUUM DATA TABLE (EVENT 1)

WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JULY 27-29, 2015

Well#	MW-2R	Well #	MW-4	Well #	MW-13
Elapsed	Vacuum (in	Elapsed	Vacuum (in	Elapsed	Vacuum (in
Time	H2O)	Time	H2O)	Time	H2O)
0	0.0	0	0.0	0	0.0
0.5	0.1	0.5	0.2	0.5	0.0
1	0.2	1	0.4	1	0.0
1.5	0.3	1.5	0.8	1.5	0.2
2	0.3	2	0.8	2	0.2
2.5	0.3	2.5	1.2	2.5	0.4
3	0.4	3	1.3	3	0.3
3.5	0.4	3.5	1.5	3.5	0.5
4	0.5	4	1.5	4	0.5
4.5	0.6	4.5	1.6	4.5	0.5
5	1.0	5	1.7	5	0.6
5.5	1.0	5.5	1.9	5.5	0.6
6	1.2	6	2.0	6	0.6
6.5	1.2	6.5	2.0	6.5	0.7
7	1.2	7	2.0	7	0.7
7.5	1.3	7.5	2.0	7.5	0.7
8	1.3	8	2.0	8	0.7
9	1.3	9	2.1	9	0.7
10	1.3	10	2.1	10	0.7
10.5	1.3	10.5	2.1	10.5	0.7
18.5	1.3	18.5	2.1	18.5	0.7
19.5	1.3	19.5	2.1	19.5	0.7
20.5	1.3	20.5	2.1	20.5	0.7
21.5	1.3	21.5	2.1	21.5	0.7
22.5	1.3	22.5	2.1	22.5	0.7
23.5	1.3	23.5	2.1	23.5	0.7
24	1.3	24	2.1	24	0.7
26	1.3	26	2.1	26	0.7
28	1.3	28	2.1	28	0.7
30	1.3	30	2.1	30	0.7
32	1.3	32	2.1	32	0.7
34	1.3	34	2.1	34	0.7
34.5	1.3	34.5	2.1	34.5	0.7
42.5	1.3	42.5	2.1	42.5	0.7
44.5	1.3	44.5	2.1	44.5	0.7
46.5	1.3	46.5	2.1	46.5	0.7
48	1.3	48	2.1	48	0.7

SECTION F-3

VACUUM DATA TABLE (EVENT 2)

WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JULY 29-31, 2015

Well#	MW-4	Well#	MW-12	Well #	MW-15
Elapsed	Vacuum (in	Elapsed	Vacuum (in	Elapsed	Vacuum (in
Time	H2O)	Time	H2O)	Time	H2O)
0	0.0	0	0.0	0	0.0
0.5	0.0	0.5	0.0	0.5	0.0
1	0.0	1	0.1	1	0.1
1.5	0.0	1.5	0.1	1.5	0.1
2	0.0	2	0.1	2	0.1
2.5	0.0	2.5	0.1	2.5	0.2
3	0.0	3	0.1	3	0.2
3.5	0.0	3.5	0.1	3.5	0.2
4	0.0	4	0.1	4	0.2
4.5	0.0	4.5	0.1	4.5	0.2
5	0.0	5	0.1	5	0.2
5.5	0.0	5.5	0.1	5.5	0.2
6	0.1	6	0.1	6	0.2
6.5	0.1	6.5	0.1	6.5	0.2
7	0.1	7	0.1	7	0.2
7.5	0.1	7.5	0.1	7.5	0.2
8	0.1	8	0.1	8	0.3
9	0.1	9	0.1	9	0.3
10	0.1	10	0.1	10	0.3
18	0.1	18	0.1	18	0.3
19	0.1	19	0.1	19	0.3
20	0.1	20	0.2	20	0.3
21	0.1	21	0.2	21	0.3
22	0.1	22	0.2	22	0.3
23	0.1	23	0.2	23	0.3
24	0.1	24	0.2	24	0.3
26	0.1	26	0.2	26	0.3
28	0.1	28	0.2	28	0.3
30	0.1	30	0.2	30	0.3
32	0.1	32	0.2	32	0.3
34	0.1	34	0.2	34	0.3
42	0.1	42	0.2	42	0.3
44	0.1	44	0.2	44	0.3
46	0.1	46	0.2	46	0.3
48	0.1	48	0.2	48	0.3



of 18.22 gallons of gasoline) were recovered as emissions during the two events. Off-gas treatment was provided during the events as directed by the SCDHEC Project Manager.

7. Free Product Thickness Table

Free Product Thickness Table (Event 1) - Attached

Free Product Thickness Table (Event 2) - Attached

8. AFVR Event Map

Figure F-8 AFVR Map (Event 1) – Attached

Figure F-8 AFVR Map (Event 2) - Attached

9. Recovery Water Disposal

The disposal manifests for the recovery water generated during the July 27-29, 2015 and July 29-31, 2015 AFVR Events are included in Appendix G.

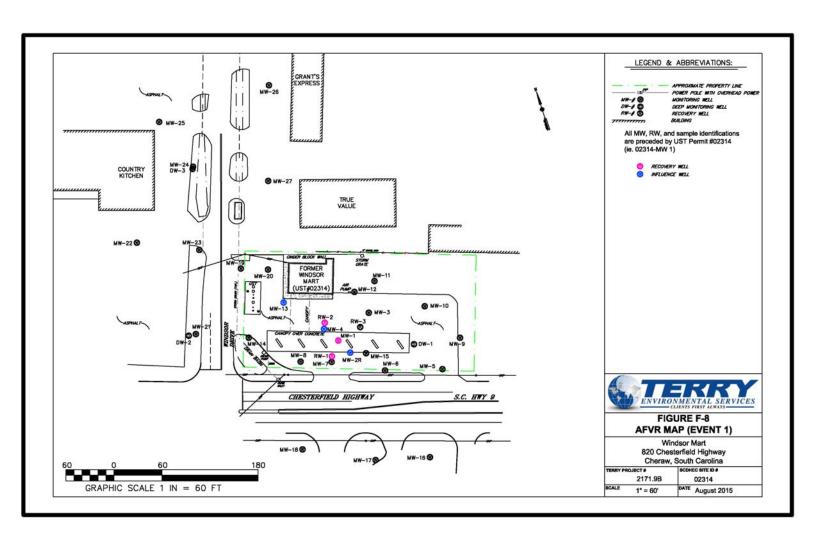
SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

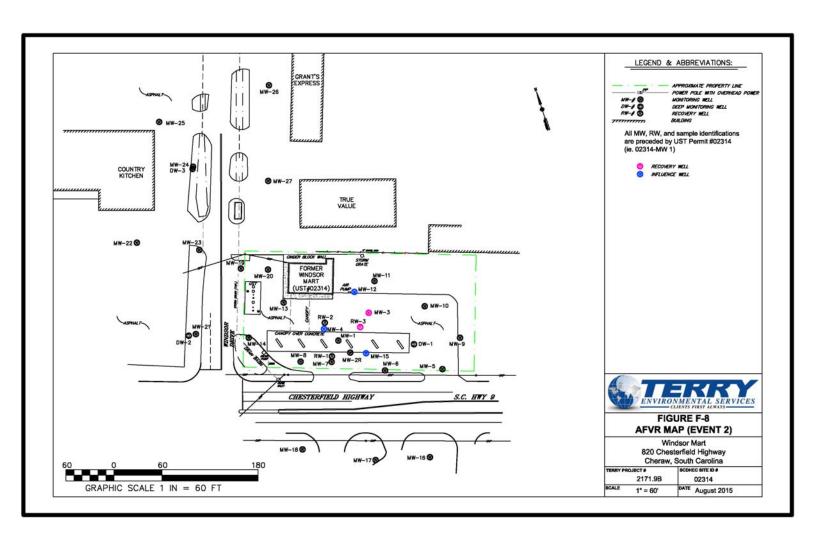
T	TIT	V	27	-29,	201	5
·J	\mathbf{OL}	/ I	41	- <i>L</i> J,	4 01	J

Well #		Depth to Product	Depth to Water	Product Thickness
RW-1	Initial	n/a	18.56	n/a
IX VV - I	Final	n/a	18.90	n/a
RW-2	Initial	n/a	17.90	n/a
	Final	n/a	18.40	n/a
MW-1	Initial	17.72	19.53	1.81
	Final	n/a	18.92	n/a
MW-2R	Initial	n/a	18.38	n/a
	Final	18.90	19.90	1.00
MW-4	Initial	18.21	18.89	0.68
	Final	19.00	19.71	0.71

SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 JULY 29-31, 2015

Well #		Depth to Product	Depth to Water	Product Thickness
RW-3	Initial	n/a	18.24	n/a
KW-3	Final	n/a	18.25	n/a
MW-3	Initial	16.01	17.00	0.99
	Final	n/a	16.40	n/a
MW-4	Initial	19.00	19.71	0.71
	Final	17.99	19.56	1.57
MW-12	Initial	n/a	17.61	n/a
	Final	n/a	17.58	n/a
MW-15	Initial	n/a	18.80	n/a
	Final	n/a	19.67	n/a







G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.

H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, TERRY installed three recovery wells and conducted two subsequent 48-hour AFVR events in accordance with the SCDHEC UST QAPP, Revision 2.0.

On June 18, 2015, three (3) four-inch recovery wells (RW-1 through RW-3) were installed in the source area as directed by the SCDHEC Project Manager. Subsequently two (2) separate 48-hour AFVR events were performed consecutively at the subject site July 27, 2015 through July 31, 2015. Prior to the July 27-29, 2015 event, free-phase product was measured in MW-1 (1.81 feet), MW-4 (0.68 feet), and MW-13 (0.24 feet). Upon completion of the event, free-phase product was measured in MW-2R (1.00 feet), MW-4 (0.71 feet) and MW-13 (0.34 feet). Prior to the July 29-31, 2015 event, free-phase product was measured in MW-3 (0.99 feet) and MW-4 (0.71 feet). Upon completion of the event, free-phase product was measured in MW-4 (1.57 feet). A total of 113.9 pounds of gasoline vapors (approximate equivalent of 18.22 gallons of gasoline) were recovered as emissions during the events.

The AFVR event was successful at recovering contaminant mass and reducing free-phase product thicknesses in the monitoring/recovery wells. Free-phase product was measured in influence wells MW-2R, MW-4 and MW-13. As such, it is recommended to conduct four additional 48-hour AFVR events on the monitoring/recovery well network in the source area: Event 1 on monitoring well MW-13; Event 2 on monitoring/recovery wells MW-1, MW-2R and RW-1; Event 3 on monitoring/recovery wells MW-1, MW-4, and RW-2; Event 4 on monitoring/recovery wells MW-3 and RW-3.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Potentiometric Data - Not Applicable

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Not Applicable

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

4. Site Potentiometric Maps

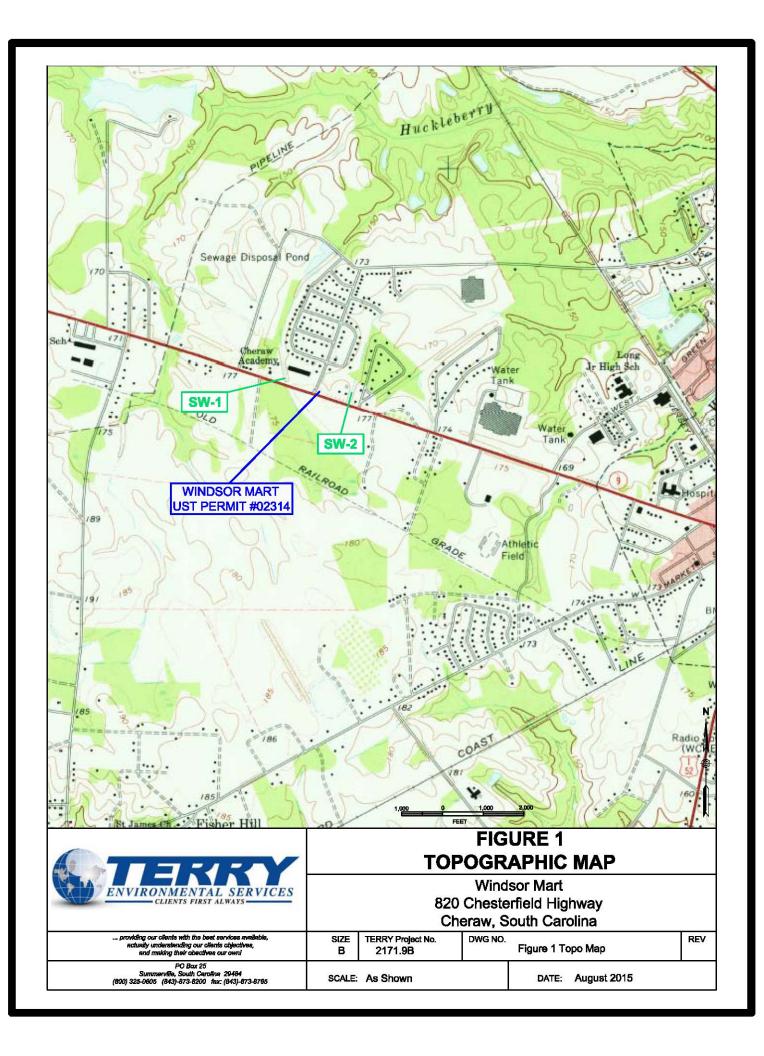
Figure 5 Site Potentiometric Map – Not Applicable

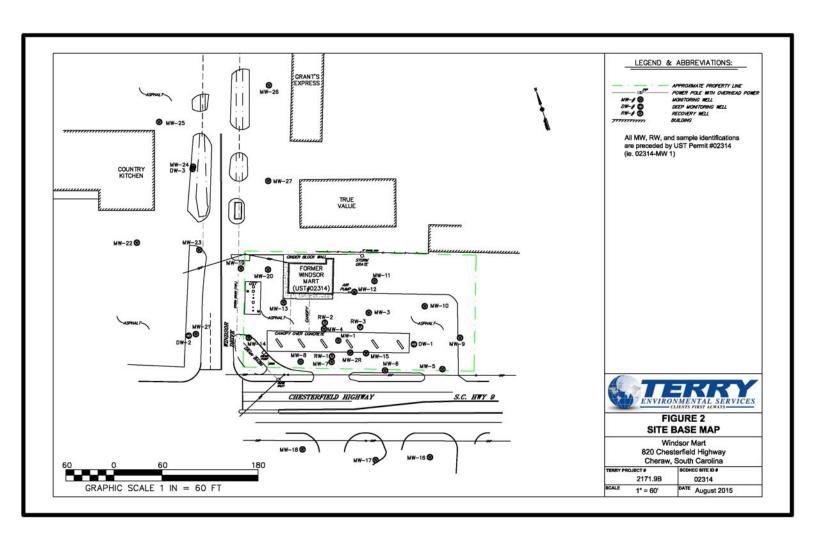
5. Geologic Cross Sections

Figure 6 Geologic Cross Sections - Not Applicable

6. Predicted Migration and Attenuation of CoCs

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable





K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

Not Applicable

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

- 5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms
- 6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifests
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data (Not Applicable)

APPENDIX C

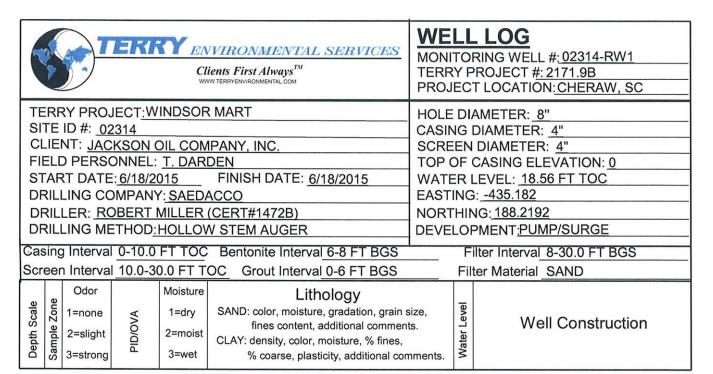
Tax Map (Not Applicable)

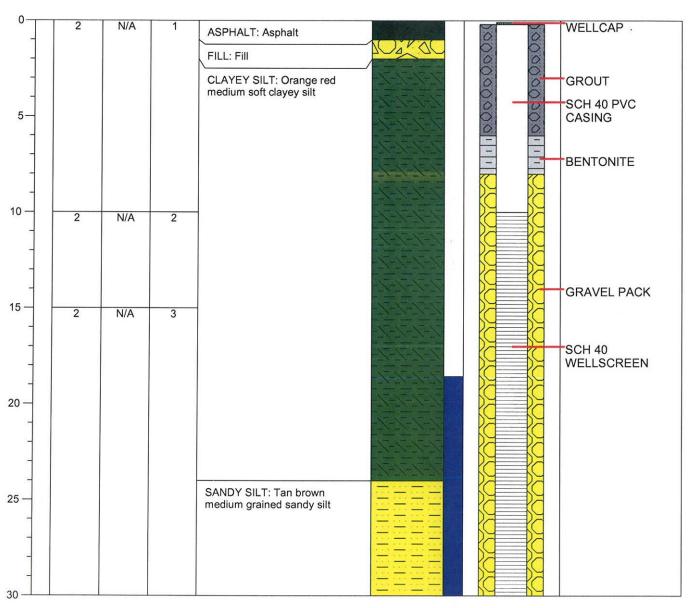
APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

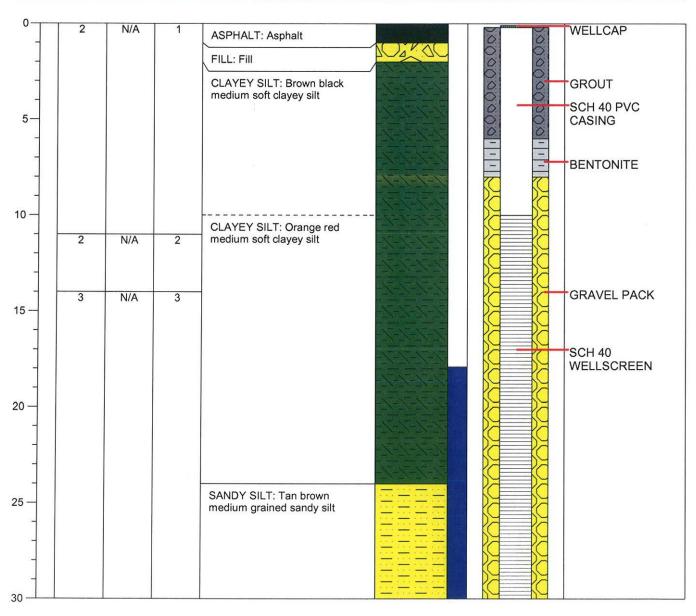
APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms

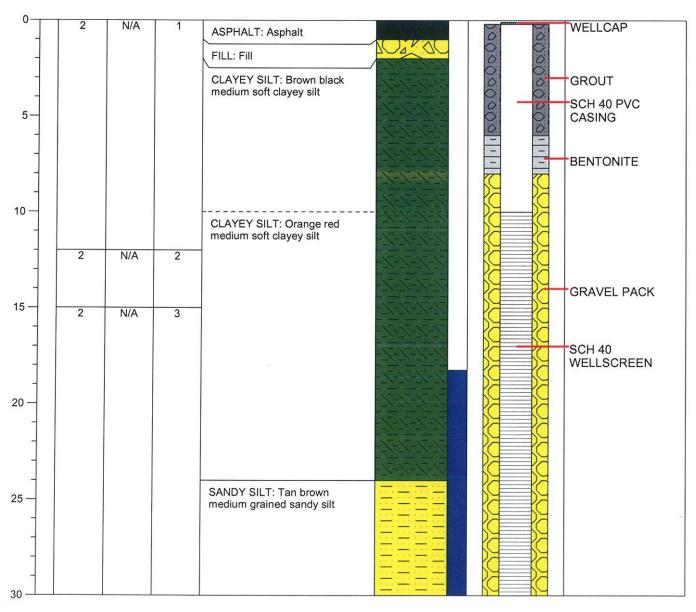












10582



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

PROMOTE PROTECT PROSPÉR		2000 20	ot. oot, oota bid, co zozo oo, (ooo) ooo
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER:
Name:	Windsor N		
(last) Address: 820 Chesterfield Hw	(ք։։ rv.	st)	8. USE:
Address.	-1		☐ Residential ☐ Public Supply ☐ Process
City: Cheraw State: S	.c. Zip:		☐ Irrigation ☐ Air Conditioning ☐ Emergency
			X Test Well
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 6-18-15
	COUNTY: Che	sterfield	30 ' ft Date Completed: 6-18-15
Name: Windsor Mart			10. CASING: ₩ Threaded
Street Address: 820 Chesterfi	eld Hwy.		Diam.: 4" Height: Above/below
City: Cheraw, SC	Zip:		Type: ☑ PVC ☐ Galvanized Surfaceft.
			□ Steel □ Other Weight ── Ib ift. □ in. to □ ft depth Drive Shoe? □ Yes 🖾 No
Latitude: Longitu	de:		■ · · · · · · · · · · · · · · · · · · ·
			in. toft. depth
3. PUBLIC SYSTEM NAME: F	PUBLIC SYSTE	M NUMBER:	11. SCREEN: pvc 4"
	RW-1		Type Diam. Slot/Gauge 010 Length: 10 to NOTE: MULTIPLE SCREENS
4. ABANDONMENT: Yes	x No		Set Between: 10' 30' the NOTE: MILLTIPLE SCREENS
Give Details Belov	V		ft and ft USE SECOND SHEET
Grouted Depth: from	_ ft. to	f(.	Sieve Analysis 🔲 Yes (please enclose) 🔯 No
	*Thickness	' '	12. STATIC WATER LEVEL
Formation Description	of Stratum	Bottom of	13. PUMPING LEVEL Below Land Surface.
Orange Silt	Stratum	Stratum 30'	ft. after hrs. Pumping G.P.M.
Oxange Size		0.0	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)
			Installed from 8 t ft. to 30 t ft. Effective size 20/30 Uniformity Coefficient
			16. WELL GROUTED? [X Yes [] No
	}		☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Depth: From 0 ft. to 61 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
			Type
			Well Disinfected ☐ Yes ☒ No Type: Amount:
			18. PUMP: Date installed: Not installed []
			Mfr. Name: Model No.:
			H.P Volts Length of drop pipe ft. Capacity gpm
			TYPE: Submersible Jet (shallow) Turbine
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: Robert Miller CERT. NO.: 1472
			Address: (Print) Level: A B C D (circle one) SAEDACCO
			9088 Northfield Drive
Indicate Water Bearing Zones			Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181
(Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:			my direction and this report is true to the best of my knowledge and belief.
. KEMAKKS: Two feet bentonite seal from	6'to 8'		
The second secon]		Signed:
			Signed: Date: 6/22/2015
]		Well Driller
. TYPE:		Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air R	-	Driven	
☐ Cable tool ☐ Other			
		.	



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:			7. PERMIT NUMBER:
Name:	Windsor M	i art	
(last)	(firs	st)	8. USE:
Address: 820 Chesterfield Hwy	7 -		☐ Residential ☐ Public Supply ☐ Process
City: Cheraw State: S.	c		☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: Cheren State: 5.	Zip:		XI Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started 6-18-15
2. LOCATION OF WELL: C		sterfield	
Name: Windsor Mart	OGN11.		10. CASING: Threaded Date Completed: 6-18-15
Street Address: 820 Chesterfie	eld Hwy.		Diam.: 4" Height: Above/Kelow
City: Cheraw, SC	Zip:		Type: 🖾 PVC 🗆 Galvanized Surfaceft
Sity.	1 _1 p .		**
Latitude: Longitud	ω.		U Steel O' Other Weight Weight Drive Shoe? ☐ Yes 🗗 No
Landa. Longitus.	G.	•	in. to ft. depth
3. PUBLIC SYSTEM NAME: PI	UBLIC SYSTE	M NUMBER:	11. SCREEN:
	RW-2	,	Type Diam. Slot/Gauge 10' Length: 10' Set Between: ft. and 30' ft. NOTE: MULTIPLE SCREENS
4. ABANDONMENT: Yes 🗔	l Nin		Slot/Gauge:
***	140		
Give Details Below	6		ft. andft. USE SECOND SHEET
Grouted Depth: from	*Thickness		Sieve Analysis 🗌 Yes (please enclose) 🔯 No
Formation Description	of	Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
Orange Silt	0	30'	ft. after hrs. Pumping G.P.M.
MANUAL PARTAMENTAL MANU			Pumping Test: ☐ Yes (please enclose) 🅱 No
			Yield:
			14. WATER QUALITY
			Chemical Analysis ☐ Yes 🖾 No Bacterial Analysis ☐ Yes 🚨 No
			Please enclose lab results.
			15. ARTIFICIAL FILTER (filter pack) 🖾 Yes 🗌 No
			Installed from 8' ft. to 30' ft. Effective size Uniformity Coefficient
			Effective size Uniformity Coefficient
			16. WELL GROUTED? [X Yes ☐ No
			□ Neat Cement □ Bentonite □ Bentonite/Cement □ Other
			Depth: From 0 ft. to 6' ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
			Type Well Disinfected □ Yes Ⅸ No Type Amount:
			18. PUMP: Date installed. Not installed
			Mfr. Name: Model No.:
			H.PVoltsLength of drop pipeft. Capacitygpm TYPE: □ Submersible □ Jet (shallow) □ Turbine
			TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
			19. WELL DRILLER: Robert Miller CERT. NO. 1472
			Address: (Print) Level: A B C D (circle one)
			SAEDACCO
			9088 Northfield Drive
*Indicate Water Bearing Zones			Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181
Bloom 2nd chapt if accided)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.
5. REMARKS: Two feet bentonite seal from	LI+0 P1		
THO TEST DELICUITIE REST ITOM	LO 0		Signed Polit & Min - 6/22/2015
			Signed: Date: 6/22/2015
			Well Driller
6. TYPE: ☐ Mud Rotary ☐ Jetted	X (Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Ro	tary 🗆 t	Driven	and the second subsection of second seconds.
☐ Cable tool ☐ Other			



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELLOWNER INFORMATION:			
WELLOTHIER IN CIVILATION:			7. PERMIT NUMBER:
Name:	Windsor M	<i>l</i> art	
(last)	(firs	st)	0.1107
Address: 820 Chesterfield Hwy	7 •		8. USE:
			☐ Residential ☐ Public Supply ☐ Process
City: Cheraw State: S.	C. Zip:		☐ Irrigation ☐ Air Conditioning ☐ Emergency
Telephone: \Mork:	Hama:		9. WELL DEPTH (completed) Date Started: 6-18-15
Telephone: Work:	Che	eterfield	
2. LOCATION OF WELL: C	OUNTY: Gira.	aceri teta	30 t Date Completed: 6-18-15
Name: Windsor Mart			10. CASING: ☑ Threaded ☐ Welded
Street Address: 820 Chesterfic	ald Hwy.		Diam.: 4" Height: Above/Celow
City: Cheraw, SC	Zip:		Type: 🖾 PVC 🗌 Galvanized Surface
•			
Ladina.			O Steel Other Weight — Ib./ft. O in. to ft. depth Drive Shoe? ☐ Yes 🖽 No
Latitude: Longitud	8 :		
			in, toft. depth
3. PUBLIC SYSTEM NAME: P	JBLIC SYSTE	M NUMBER:	11. SCREEN:
	RW-3		Type: Pvc Diam.; 4" 10' Slot/Gauge: 10' ft. and 30' ft. NOTE: MULTIPLE SCREENS
			Slot/Gauge .010 Length 101
4. ABANDONMENT:	No		Sat Patrices 10' 4 and 30' A NOTE MILITING CORPERIO
Give Details Below			Set Between: ft. and ft. NOTE: MULTIPLE SCREENS
Grouted Depth: from	ft to	f t	ft. andft. USE SECOND SHEET
			Sieve Analysis 🔲 Yes (please enclose) 🔀 No
Formation Description	*Thickness	f '	12. STATIC WATER LEVEL ft. below land surface after 24 hours
Formation Description	of	Bottom of	
0	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.
Orange Silt	0	30'	ft. after hrs. Pumping G.P.M.
			Pumping Test: 🗌 Yes (please enclose) 🔀 No
			Yield:
			14. WATER QUALITY
			- · · · · · · · · · · · · · · · · · · ·
			Chemical Analysis ☐ Yes 20 No Bacterial Analysis ☐ Yes 20 No
			Please enclose lab results.
			15. ARTIFICIAL FILTER (filter pack)
			Installed from 8 tft. to 30 tft. to 50 ft. to 50 ft. to 50 ft. to 50 ft. to 50 ft.
			Omornity Coefficient
	 		16. WELL GROUTED? X Yes No
			☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
			Donth: From ()
	1 1		Depart From 0 II. 10 0
			Depth: From 0 ft. to 61 ft.
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction Type
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:ftftft
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type Well Disinfected □ Yes ☒ No Type: Amount: 18. PUMP: Date installed: Not installed □
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type Well Disinfected Yes No Type: Amount: 18. PUMP: Date installed: Not installed Not installed Mfr. Name: Modef No.: H.P Volts Length of drop pipe ft. Capacity gpm TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robert Miller CERT. No.: 1472 Address: (Print) SAEDACCO Circle one)
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft
Indicate Water Bearing Zones			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type Well Disinfected Yes No Type: Amount: 18. PUMP: Date installed: Not installed Not installed Mfr. Name: Modef No.: H.P Volts Length of drop pipe ft. Capacity gpm TYPE: Submersible Jet (shallow) Turbine Jet (deep) Reciprocating Centrifugal 19. WELL DRILLER: Robert Miller CERT. No.: 1472 Address: (Print) SAEDACCO Circle one)
J			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
Indicate Water Bearing Zones (Use a 2nd sheet if needed)			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
(Use a 2nd sheet if needed)			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type Well Disinfected Yes No Type: Amount: 18. PUMP: Date installed: Mfr. Name:
(Use a 2nd sheet if needed) . REMARKS:			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
(Use a 2nd sheet if needed)	'to 8'		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type
(Use a 2nd sheet if needed) . REMARKS:	'to 8'		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type
(Use a 2nd sheet if needed) . REMARKS:	'to 8'		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type Well Disinfected
(Use a 2nd sheet if needed) . REMARKS: Two feet bentonite seal from 6	'to 8'		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type
(Use a 2nd sheet if needed) . REMARKS: Two feet bentonite seal from 6	'to 8'	ored	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type
(Use a 2nd sheet if needed) . REMARKS: Two feet bentonite seal from 6	X 80		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type Well Disinfected
(Use a 2nd sheet if needed) . REMARKS: Two feet bentonite seal from 6	23 80		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction Type

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

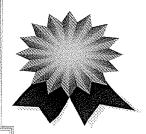
Disposal Manifests

	erator's N amie (sed Mis)	Jackson PO Box Cheraw,			8	Vindsor Mart 120 Chesterfield Hi Dheraw, SC 29520	lghway					
# Tran	sor's Prices sporter 1 Company Ner JBR Environn sporter 2 Company Ner	nental Services	(8)	64) 583-2	Ţ			USEPA D	000439	i8		
١,	grated Facily Name a JBR Environn 210 Alice St.	ed Site Address nental Services						SEPA ID	Number			
facily.	Spartanburg, & Phose F Wasta Straying Nam		(864) 583-2	717		B.J.	71124 ****	SCR00	00043	58 2	2,8	40
) f		n-RCRA Regu	ulated Mate	rial		10	DM	SCR00 17.9 7,000	Р	64	00 24 Q	45
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TERRY Environmental Services, Inc. Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, <u>100</u> gallons of drilling decontamination water and well development water were processed on-site via a portable granular activated carbon (GAC) unit and released to the surface within the area of the known petroleum contamination plume June 18, 2015.

Windsor Mart
Cheraw, South Carolina
SCDHEC UST Permit No.: 02314





Non-Hazardous Manifest: Waste Water or	Drume	Numbe		· · · · · · · · · · · · · · · · · · ·
Generator's EPA ID# (if applicable):	Dianis	Waste ID Num		
2. Generator's Name and Mailing Address:		Phone () D #	2171.98
Windsor Mart		P O #:		•
820 Constrained Hwy		. 0	ust	# 02314
3. Agent of Generator and Mailing Address:	~~	Dhana / 🕶	43) 873-	\$3.0A
Terry Employeen tal Syrvay		`		2000
Terry Environmental Survey Summerally SC, 27484		PO#: 2	5	
4. Transporter Company Name:		Phone ()	
		, ,,,,,,,,	,	
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:				
5. Halisporta O.S. EFA ton.				·
6. Facility Name and Site Address: Phone: (843) 797-8674	N	lailing Addres	s.	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd Fax: (843) 797-2126		Water Recov		Fax: (843) 797-1884
511 Old Mt. Holly Rd. Pax (643) 797-2126 Goose Creek, SC 29445		se Creek, SC 2		• •
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Con	tainer	Unit	Quantity
	No.	Туре		
a. Non-Hazardous, non-regulated waste water	191	VT	Gal	5000
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Generator's Certification: I hereby declare that the contents of this co		i havardaya	hy definition o	listing and are fully and encuretely described
above by proper shipping name and are classified, packed, marked a	n s l baleds bna	d are in all resp	pects in proper	condition for transport by highway according
to applicable international and national government regulations and th	ne laws of the E	itate of South C	arolina. I f⊔rthe	er certify that the contents of this consignment
are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature:		Submitted to ai	in approved by	Date:
Typer waterhouse	Dame	σ-	<u>-</u>	-t/2E/15
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	<u> </u>		,	Date:
Todd Brown	200	lef Bi	1	2/28/15
11. Discrepancy Indication space:		•	•	
.12. Facility Owner or Operator: Certification of Receipt of Materials				-/\/
Printed/Typed Name: Signature:	Nati	la C		Date 8) 130/3
White Facility Vallow - Office	Pinl	c - Transno	orter I	Blue - Generator

Drums			
		pet:	
	Phoпе () DIL-	ITAN AR
	PO#:		2171.913
	· · · · · · · · · · · · · · · · · · ·		T#02314
`•	Phone (8	43) 873-2	8200
	PO#: 72	5	
r/	nl.		
	Pnone ().	
		٠	
<u> </u>			
			Phone: (843) 797-3111
√ . U:	S Water Recove	ery	Fax: (843) 797-1884
51	1 Old Mt. Holly	Rd.	- Law total to the think
		-	
	Total Gallons:		Tank Number
		<u> </u>	
		Unit	Quantity
	1/~	Cal	5000
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Ta A	Y		Date: 7/29/15
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Jan	46.	·	Date: 7/29/15
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1. 1 K	- 20		Date 67/24/
ليلال	Transport	netar E	Blue - Generator
	Con No.	Phone (PO#: Phone	Phone () Phone () Phone () Phone () Phone () Phone () Phone () Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445 Total Gallons: Container Unit No. Type Onsignment are not hazardous by definition or and labeled, and are In all respects in proper the laws of the State of South Carolina. I further form previously submitted to and approved by

Non-Hazardous Manifest: Waste Water or	Drums	Number	er:	
Generator's EPA ID# (If applicable):		Waste ID Nur		
2. Generator's Name and Malling Address: https://www.mr.T	1	Phone ()	
2. Generator's Name and Malling Address: White Mr T 820 Chester/lelo Chenaw 5 C	n stay	P'O#: 4	2171.98)
			15T# 02	
3. Agent of Generator and Mailing Address: Teny Erv		Phone ()	•
		PO#:		•
Sugar ville s	: t	-		
4. Transporter Company Name: FoodSell Tanks, 511 ald MT Hally R	part ed	Phone ()	
Truck & Trailer License Number: Gase Graksc		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
5, Transporter U.S. EPA ID#:	· ·			
6. Facility Name and Site Address:		Mailing Addres		Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.	US 51	S Water Recovered Old Mt. Holly	very y Rd.	Fax: (843) 797-1884
Goose Creek, SC 29445		se Creek, SC		
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons	······································	Tank Number
8. U.S. DOT Description	Con No.	ntainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	25	Gal	5360
				A
9. Generator's Certification: I hereby declare that the contents of this or above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F.	and labeled, ar he laws of the S	nd are in all res State of South (spects in proper Carolina. I furthe	r condition for transport by nighway according er certify that the contents of this consignment
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above by proper shipping name and are classified, packed, marked at the applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Printed/Typed Name: Adam Contained Signature: 10. Transporter Acknowledgement of Receipt of Materials	and labeled, ar he laws of the S	nd are in all res State of South (spects in proper Carolina. I furthe	er condition for transport by nighway according er certify that the contents of this consignment by the Designated Facility. Date: 7/28/15
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Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:		7
Generator's EPA ID# (if applicable):		Waste ID Num	ber:	· · · · · · · · · · · · · · · · · · ·	
Generator's Name and Malling Address: Windsor Mart		Phone (-2171.9B	
820 Chaterfield Hwy		PO#:	W	STEF 02314	•
Churaw, SC			,		
Agent of Generator and Mailing Address:		Phone (8	47) 873-	8200	
Terry Europemental Services Summerth, SC	•	PO#: て	5		
4. Transporter Company Name: Geodscil Transport 51 Old Int. Holly D.D. Truck & Traffer License Number:		Phone ()		
5. Transporter U.S. EPA ID#:	·	•			
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 511	ailing Address Water Recove Old Mt. Holly i e Creek, SC 29	ery Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884	
7 Facility U.S. EPA ID#:			<u> </u>		
Start Level: End Level:		Total Gallons:		Tank Number	
8. U.S. DOT Description	7 700		Unit	Quantity	
u. C.o. DO (Description	No.	ainer Type	· Onit	Quantity	
Non-Hazardous, non-regulated waste water			GAL	5800	
				— M	
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a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this contents by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the contents of the contents of this contents.	onsignment are and labeled, where layers of the sam	not hazardous lare in all resparts of South Co	cyAL by definition or ects in proper arolina. I further	listing and are fully and accurated condition for transport by highway reartify that the contents of this contents of this contents of the con	y according
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9. Generator's Certification: I hereby declare that the contents of this composed by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature:	No. OS/Jo4/ Donsignment are and labeled, the laws of theis compressions.	not hazardous lare in all resparts of South C	by definition or ects in proper arolina. I further dispersived by	listing and are fully and accurated condition for transport by highwar cartify that the contents of this contents of the Designated Facility.	y according

Non-Hazardous Manifest: Waste Water or	Drums	Numb	or'	
Generator's EPA ID# (If applicable):	Diditio	Waste ID Nu		
Generator's Name and Mailing Address:		Dhono (······································	
Whadson Murt		Phone (1211	SITURE OF
		P O #:	· * (1 · ·	2171.98
Ohraw, SC			US	T#02314
Agent of Generator and Mailing Address:		Phone (5	外3) 87 フ	-82.00
Summer Sc		PO#: 7	الإستوح	
Summervallersc			·.	
4. Transporter Company Name:		Phone ()	
Goodsell Transport		`	•	
Truck & Trailer License Number: Goog Crack Sc				
Truck & Trailer License Number: Goos Crack Sc 5. Transporter U.S. EPA ID#:		•		
		<u>,</u>		
6. Facility Name and Site Address: Phone: (843) 797-8674		Mailing Addres		Phone; (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd. Fax: (843) 797-2126		S Water Reco 1 Old Mt. Holly		Fax: (843) 797-1884
Gaose Creek, SC 29445	God	ose Creek, SC	29445	
7 Facility U.S. EPA ID#:	***************************************			
Start Level: End Level:		Total Gailons	3;	Tank Number
,				
8. U.S. DOT Description		ntainer	Unit	Quantity
	No.	Type	1	·
a. Non-Hazardous, non-regulated waste water	101	VAC	GAL	5000
		-		
		•		
9. Generator's Certification: I hereby declare that the contents of this co				
above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and th				
are as represented by the description contained on the Waste Profile F	orm previous	submitted to a	ind approved by	the Designated Facility.
Printed Typed Name: Signature: Signature:	Most	<u></u>	•	Date: 7/21/is-
10. Transporter Acknowledgement of Receipt of Materials				
Printed/Typed Name: Signature: Signature:	フィー	11 B	چ سینسی	Date: 7/3/1/S
11. Discrepancy Indication space:	1			
12. Facility Owner or Operator: Certification of Receipt of Materials				1 1
Printed/Typed Name: Signature:	\H\\;;	C= \ X		Date 7/2// N/2
White Facility Vallow - Office		L Transport	adar r	Blue - Generator

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9B

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,	V		
4	telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well	X		
3	driller that installed borings/monitoring wells provided?	Λ		
6	Is the name, address, telephone number, and certification number of the certified			X
0	laboratory(ies) performing analytical analyses provided?			Λ
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 Sect 3		
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
	Has the volume of water purged from each well been provided along with			
23	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
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

Item #	Item	Yes	No	N/A
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)			X
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment



MR CHARLES JACKSON JACKSON OIL COMPANY INC PO BOX 968 CHESTERFIELD SC 29520-0968

AUG 2 4 2015

Re: AFVR Directive

Windsor Mart, 820 Chesterfield Highway, Cheraw, SC UST Permit #02314; CA #50845 Release reported December 6, 1991 Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Terry Environmental Services, Inc. as your contractor. The next appropriate scope of work at the site is to continue aggressive fluid and vapor recovery (AFVR) to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). The AFVR events must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) revision 2.0. A copy of the QAPP is available at http://www.scdhec.gov/Environment/docs/QAPP Rev-2 April2013.pdf.

Cost Agreement #50845 has been approved in the amount shown on the enclosed cost agreement form for two 96-hour AFVR events to be conducted at the site back to back. The first AFVR event should be conducted on MW-4 and RW-2. The second AFVR event should be conducted on MW-2R and RW-1. The stingers shall be lowered at six inch intervals starting at the water table interface to the estimated historical low water table elevation for each well. Stingers should be placed as to maximize FP and/or vapor recovery. Approximately 30 days after conclusion of the AFVR events, all wells historically containing free product and recovery wells should be gauged. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

The Agency grants pre-approval for transportation of up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference **UST Permit #02314**. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash, Hydrogeologis

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc)

Technical File (w/ enc)

Approved Cost Agreement 50845

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

THRASHAM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB		· · · · · · · · · · · · · · · · · · ·		
	B1 PERSONNEL	1.0000	423.00	423.00
10 SAMPLE COLLECTION				
	E1 GAUGE WELL ONLY	7.0000	7.00	49.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	45,361.75	5,443.41
23 EFR				
	A4 96 HOUR EVENT	2.0000	12,567.50	25,135.00
	C4 OFF GAS TREATMENT 96 HOUR	2.0000	780.00	1,560.00
	D SITE ŘECONNAISSANCE	1,0000	203.25	203.25
	F1 EFFLUENT DISPOSAL	40,000.0000	0.44	17,600.00
	G AFVR EQUIPMENT MOB	1.0000	391.50	391.50

Total Amount 50,805.16

August 20, 2015 Page 1 of 1 suprcalt.rdf Rev: 1.15

Document Receipt Information

Hard Copy CD Email
Date Received 11-18-15 Parmit Number 03314
Permit Number 03314
Project Manager Ashleich Mash
Name of Contractor / / >
UST Certification Number
Docket Number
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SCANNED

AGGRESSIVE FLUID VAPOR RECOVERY (AFVR) AND GAUGING EVENTS REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #50845

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9C

KELLY K. CONE, PG Vice President, Assessment Services

KK Con

JASON A. TERRY, PG President

OCTOBER 2015



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	2.	Property Owner Information	
	3.	Contractor Information	1
	4. ~	Well Driller Information	1
	5.	Laboratory Information	1
	6.	Site History	l l
ъ	7.	Regional Geology and Hydrogeology	2
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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company (Contact: Charles Jackson)

Address: 755 South 4th Street, Hartsville, SC 29550

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 Certification: UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Not Applicable

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	

No _ XXXX
n/a
n/a
n/a



7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1.000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. During this scope of work, depth to groundwater was measured between 17 and 22 feet below top of casing in the recovery and influence wells gauged prior to the start of the events.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.

E. GROUNDWATER DATA

Not Applicable. No groundwater samples were collected during this scope of work.

4



F. AFVR INFORMATION

1. Scope of Work

As directed by SCDHEC, two (2) consecutive 96-hour AFVR Event were performed; between October 19, 2015 and October 23, 2015 event one was conducted on monitoring/recovery wells MW-4 and RW-2; between October 26, 2015 and October 30, 2015 event two was conducted on monitoring/recovery wells MW-2R and RW-1. TERRY Exploration Services, LLC performed the AFVR events under the supervision of TERRY Environmental Services, Inc. The SCDHEC Project Manager was notified about the significant thickness of product gauged in influence well MW-1 (1.85 feet). Due to the high recovery rate of effluent water, TERRY was not able to add the well into the first AFVR event. TERRY did connect to MW-1 for a few hours during the second AFVR event but had to disconnect due to the significant increase in effluent water generated.

2. AFVR Emissions Table

AFVR Emissions Table (Event 1) – Attached

AFVR Emissions Table (Event 2) – Attached

Extraction Well Stinger Depth Table (Event 1) – Attached

Extraction Well Stinger Depth Table (Event 2) – Attached

3. Vacuum Data Table

Vacuum Data Table (Event 1) - Attached

Vacuum Data Table (Event 2) - Attached

4. Volume of Water Recovered

36,200 gallons of fluid were recovered during the 96-hour event conducted October 19, 2015 through October 23, 2015. 33,600 gallons of fluid were recovered during the 96-hour event conducted October 26, 2015 through October 30, 2015. A total of 69,800 gallons of fluid were recovered during the two events. The SCDHEC Project Manager was notified within the first 24 hours of the event about the high volume of recovery. TERRY was directed to proceed.

5. Volume of Product Recovered

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

SECTION F-2A **AFVR EMISSIONS TABLE (EVENT 1)** WINDSOR MART **CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314**

	SCOREC UST PERMIT #02314																		
Date:	Octob	er 19-23	3, 2015									Average	Depth to	Grou	ındwater:		18-22	ft.	
Site Name:	Winds	Vindsor Mart Describe Soil in Saturated Zone:				Sandy	Silt												
SCDHEC Site			02314										Contracto			xploration	,		`
		W 4 0 D													I LIMIT L	-xpioratioi	Oeivic	es, LLC	,
Well ID #:	MW-4 & RW-2 Blower Specification of the Vacuum Truck (CFM @ Hg): 282 CFM @ 25" Hg DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd) EMISSION CALCULATION																		
	DRY S	STANDA	RD CUB	BIC FE	ET PER	MINUTE	(DSCFM) CALC	ULATION	S (Qstd)				EMI	SSION C	ALCULAT	ION		
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPMpre	PPM _{post}	Reduction	Elapsed time	Flow	PPM _d	PPM _c	K	C _{cm}	C _c	PMR _c	PMR _a	PMR _a
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
10/19/2015	13:30	21.0	967	3	143.6	21.6	3261	607	81	0	37.86	3574.49	14297.97	4	7134.13	4.454E-04	1.01	1.17	0.19
10/19/2015	14:00	21.0	1003	3	146.9	21.2	3300	655	80	30	39.06	3617.24	14468.96	4	7219.45	4.507E-04	1.06	1.22	0.20
10/19/2015	14:30	21.0	1052	3	147.7	21.1	3279	610	81	60	40.91	3594.22	14376.89	4	7173.51	4.478E-04	1.10	1.27	0.20
10/19/2015	15:00	22.0	1037	3	149.2	21.1	3256	600	82	90	40.23	3569.01	14276.04	4	7123.19	4.447E-04	1.07	1.24	0.20
10/19/2015	15:30	21.0	1051	3	151.2	21.3	3007	556	82	120	40.64	3296.07	13184.29	4	6578.45	4.107E-04	1.00	1.16	0.19
10/19/2015	16:00	21.0	1067	3	152.6	21.6	2963	481	84	150	41.16	3247.84	12991.37	4	6482.19	4.047E-04	1.00	1.16	0.19
10/19/2015	16:30	21.0	999	3	153.9	21.5	3046	575	81	180	38.46	3338.82	13355.29	4	6663.77	4.160E-04	0.96	1.11	0.18
10/19/2015	17:00	21.0	1113	3	154.7	21.2	2717	362	87	210	42.79	2978.19	11912.78	4	5944.02	3.711E-04	0.95	1.10	0.18
10/19/2015	17:30	21.0	1066	3	156.3	21.8	2632	394	85	240	40.88	2885.02	11540.09	4	5758.06	3.595E-04	0.88	1.02	0.16
10/19/2015	18:00	21.0	1087	3	157.9	21.7	2888	491	83	270	41.57	3165.63	12662.53	4	6318.12	3.944E-04	0.98	1.14	0.18
10/19/2015	18:30	21.0	1126	3	157.9	21.7	2931	537	82	300	43.05	3212.77	12851.07	4	6412.19	4.003E-04	1.03	1.20	0.19
		21.0	1152			21.9	2766	387	86	330	44.03		12127.62	_	6051.21	3.778E-04	1.00		
10/19/2015	19:00 19:30		1036	3	158.4 158.8	21.8	2653	425	86			3031.91 2908.04		4				1.15	0.18
10/19/2015		21.0								360	39.57		11632.17	_	5804.00	3.623E-04	0.86	1.00	0.16
10/19/2015	20:00	21.0	1070	3	158.6	22.0	2818	507	82	390	40.88	3088.90	12355.62	4	6164.98	3.849E-04	0.94	1.09	0.17
10/19/2015	20:30	21.0	1131	3	158.6	22.0	2744	493	82	420	43.21	3007.79	12031.16	4	6003.08	3.748E-04	0.97	1.12	0.18
10/19/2015	21:00	21.0	1090	3	158.6	22.2	2698	486	82	450	41.64	2957.37	11829.47	4	5902.45	3.685E-04	0.92	1.07	0.17
10/19/2015	21:30	21.0	1146	3	158.4	22.2	2631	447 417	83	480	43.80	2883.93	11535.71	4	5755.87	3.593E-04	0.94	1.09	0.17
10/19/2015	22:30	21.0	1021	3	158.4	22.3	2783		85	540	39.02	3050.54	12202.16	4	6088.41	3.801E-04	0.89	1.03	0.16
10/19/2015	23:30	21.0	1112	3	158.1	22.3	2619	393	85	600	42.52	2870.77	11483.09	4	5729.62	3.577E-04	0.91	1.06	0.17
10/20/2015	0:00	21.0	1128	3	158.0	22.4	2601	416	84	630	43.14	2851.04	11404.17	4	5690.24	3.552E-04	0.92	1.06	0.17
10/20/2015	8:00	21.0	1082	3	157.3	22.5	2491	423	83	1110	41.42	2730.47	10921.87	4	5449.59	3.402E-04	0.85	0.98	0.16
10/20/2015	9:00	21.0	966	3	155.3	22.2	2467	411	83	1170	37.10	2704.16	10816.65	4	5397.09	3.369E-04	0.75	0.87	0.14
10/20/2015	10:00	21.0	1030	3	157.0	21.9	2510	417	83	1230	39.45	2751.30	11005.18	4	5491.16	3.428E-04	0.81	0.94	0.15
10/20/2015	11:00	21.0	1111	3	157.2	21.5	2315	457	80	1290	42.54	2537.55	10150.20	4	5064.56	3.162E-04	0.81	0.93	0.15
10/20/2015	12:00	21.0	1087	3	157.9	21.3	2227	335	85	1350	41.57	2441.09	9764.36	4	4872.04	3.042E-04	0.76	0.88	0.14
10/20/2015	13:00	21.0	1069	3	158.1	21.0	2121	300	86	1410	40.87	2324.90	9299.60	4	4640.14	2.897E-04	0.71	0.82	0.13
10/20/2015	15:00	21.0	1137	3	158.6	21.1	2247	340	85	1530	43.44	2463.01	9852.05	4	4915.79	3.069E-04	0.80	0.93	0.15
10/20/2015	17:00	21.0	1154	3	157.9	21.4	2104	275	87	1650	44.14	2306.26	9225.06	4	4602.95	2.874E-04	0.76	0.88	0.14
10/20/2015	19:00	21.0	1128	3	155.7	21.4	2078	353	83	1770	43.30	2277.77	9111.06	4	4546.07	2.838E-04	0.74	0.85	0.14
10/20/2015	21:00	21.0	1074	3	155.3	21.6	2061	371	82	1890	41.25	2259.13	9036.52	4	4508.88	2.815E-04	0.70	0.81	0.13
10/20/2015	23:00	21.0	1142	3	154.8	21.7	2109	337	84	2010	43.90	2311.75	9246.98	4	4613.89	2.880E-04	0.76	0.88	0.14
10/21/2015	0:00	21.0	1151	3	154.8	21.9	2086	396	81	2070	44.24	2286.53	9146.14	4	4563.57	2.849E-04	0.76	0.88	0.14
10/21/2015	8:00	21.0	1186	3	153.6	22.3	1862	216	88	2550	45.68	2041.00	8164.00	4	4073.52	2.543E-04	0.70	0.81	0.13
10/21/2015	10:00	20.0	1147	3	155.6	22.0	1954	256	87	2670	44.03	2141.84	8567.38	4	4274.79	2.669E-04	0.71	0.82	0.13
10/21/2015	12:00	20.0	1080	3	157.2	21.6	2081	300	86	2790	41.35	2281.05	9124.22	4	4552.63	2.842E-04	0.71	0.82	0.13
10/21/2015	14:00	20.0	1091	3	158.3	21.5	2268	408	82	2910	41.70	2486.03	9944.12	4	4961.73	3.098E-04	0.78	0.90	0.14
10/21/2015	16:00	20.0	1054	3	158.3	21.5	2224	378	83	3030	40.29	2437.80	9751.20	4	4865.47	3.038E-04	0.73	0.85	0.14
10/21/2015	18:00	20.0	1073	3	158.2	21.6	2241	425	81	3150	41.02	2456.44	9825.74	4	4902.67	3.061E-04	0.75	0.87	0.14
10/21/2015	20:00	20.0	1048	3	158.2	22.6	2209	331	85	3270	40.06	2421.36	9685.44	4	4832.66	3.017E-04	0.73	0.84	0.13
10/21/2015	22:00	20.0	1061	3	158.1	21.6	2215	377	83	3390	40.57	2427.94	9711.74	4	4845.78	3.025E-04	0.74	0.85	0.14
10/22/2015	0:00	20.0	1094	3	158.1	21.5	2201	418	81	3510	41.83	2412.59	9650.36	4	4815.16	3.006E-04	0.75	0.87	0.14
10/22/2015	8:00	20.0	1116	3	158.2	21.7	1694	275	84	3990	42.66	1856.85	7427.40	4	3705.99	2.314E-04	0.59	0.69	0.11
10/22/2015	10:00	20.0	1074	3	158.3	21.6	1430	109	92	4110	41.05	1567.47	6269.88	4	3128.43	1.953E-04	0.48	0.56	0.09
10/22/2015	12:00	20.0	1159	3	158.6	21.0	1282	100	92	4230	44.28	1405.24	5620.97	4	2804.65	1.751E-04	0.47	0.54	0.09
10/22/2015	14:00	20.0	1060	3	158.9	20.9	1316	242	82	4350	40.48	1442.51	5770.05	4	2879.03	1.797E-04	0.44	0.51	0.08
10/22/2015	16:00	20.0	1104	3	158.9	20.8	915	116	87	4470	42.16	1002.96	4011.85	4	2001.76	1.250E-04	0.32	0.37	0.06
10/22/2015	18:00	20.0	1089	3	158.8	21.1	1108	200	82	4590	41.59	1214.52	4858.06	4	2423.99	1.513E-04	0.38	0.44	0.07
10/22/2015	20:00	20.0	1113	3	158.5	21.3	1013	172	83	4710	42.53	1110.38	4441.53	4	2216.15	1.384E-04	0.35	0.41	0.07
10/22/2015	22:00	20.0	1072	3	158.5	21.3	973	175	82	4830	40.96	1066.54	4266.15	4	2128.64	1.329E-04	0.33	0.38	0.06
10/23/2015	0:00	20.0	1094	3	158.5	21.4	961	163	83	4950	41.80	1053.38	4213.54	4	2102.39	1.313E-04	0.33	0.38	0.06
10/23/2015	8:00	20.0	1147	3	157.3	22.0	615	101	84	5430	43.91	674.12	2696.49	4	1345.44	8.400E-05	0.22	0.26	0.04
10/23/2015	10:00	20.0	1196	3	157.9	21.6	630	110	83	5550	45.74	690.56	2762.26	4	1378.26	8.604E-05	0.24	0.27	0.04
10/23/2015	12:00	20.0	1152	3	158.2	21.4	600	99	84	5670	44.04	657.68	2630.72	4	1312.63	8.195E-05	0.22	0.25	0.04
10/23/2015	13:30	20.0	1178	3	158.8	21.4	507	81	84	5760	44.99	555.74	2222.96	4	1109.17	6.925E-05	0.22	0.23	0.04
Average	10.00	20.6	1092.1	3.0	156.5	21.6	2161	358	84	3/60	41.86	2369.03	9476.11	4	4728.22	2.952E-05	0.19	0.22	0.03
Bws =	0.088	Bwsw:		3.0	150.5	21.0	2101	336	J 34		41.00	2309.03							71.18
DWS =	0.088	BWSW:	0.06	ı									rotari	-oun	us or Carbo	n Recovere	u as Em	แรรเบทร:	71.18

Total Pounds of Gasoline Vapor Recovered as Emissions: 82.35 Total Gallons of Gasoline Recovered as Emissions: 13.18 (This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

Date:	Octob	October 26-30, 2015 Average Depth to Groundwater: 17-21 ft.																	
Site Name:		sor Mart										_	Sandy Silt						
SCDHEC Site			02314 Vacuum Contractor: TERRY Exploration			_		0											
Well ID#:	MW-2R & RW-1 Blower Specification of the Vacuum Truck (CFM @ Hg): 282 CFM @ 25" Hg						,												
				IC FEI	ET PER	MINUTE									ISSION C	ALCULAT	ION		
			Velocity	Pipe Id	Temp.	Rel.Humid		,		Elapsed time	Flow	PPM _d	PPM₀	K	C _{cm}	C _c	PMR _c	PMR _a	PMR _a
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
10/26/2015	12:30	21.0	958	3	105	29	1144	172	85	0	40.07	1253.98	5015.91	4	2502.74	1.562E-04	0.38	0.43	0.07
10/26/2015	13:00	21.0	1001	3	106	29	1168	175	85	30	41.80	1280.28	5121.14	4	2555.25	1.595E-04	0.40	0.46	0.07
10/26/2015	13:30	21.0	999	3	109	28	1179	165	86	60	41.49	1292.34	5169.37	4	2579.31	1.610E-04	0.40	0.46	0.07
10/26/2015	14:00 14:30	21.0 21.0	1017 1005	3	111	28 28	1164 1151	151 150	87 87	90 120	42.09 41.60	1275.90	5103.60 5046.60	4	2546.50 2518.06	1.590E-04 1.572E-04	0.40	0.46 0.45	0.07
10/26/2015	15:00	21.0	1005	3	112	29	1155	150	87	150	42.60	1261.65 1266.03	5046.60	4	2518.06	1.572E-04 1.577E-04	0.39	0.45	0.07
10/26/2015	15:30	21.0	1031	3	112	29	1148	172	85	180	42.89	1258.36	5033.45	4	2511.49	1.568E-04	0.40	0.47	0.07
10/26/2015	16:00	21.0	1021	3	113	29	1128	169	85	210	42.11	1236.44	4945.75	4	2467.74	1.541E-04	0.39	0.45	0.07
10/26/2015	16:30	21.0	1047	3	113	28	1125	169	85	240	43.18	1233.15	4932.60	4	2461.18	1.537E-04	0.40	0.46	0.07
10/26/2015	17:00	21.0	1069	3	112	28	1121	157	86	270	44.17	1228.77	4915.06	4	2452.43	1.531E-04	0.41	0.47	0.08
10/26/2015	17:30	21.0	1081	3	112	28	1116	156	86	300	44.66	1223.28	4893.14	4	2441.49	1.524E-04	0.41	0.47	0.08
10/26/2015	18:00	21.0	1072	3	111	27	1123	146	87	330	44.37	1230.96	4923.83	4	2456.80	1.534E-04	0.41	0.47	0.08
10/26/2015	18:30	21.0	1070	3	111	27	1107	144	87	360	44.29	1213.42	4853.68	4	2421.80	1.512E-04	0.40	0.46	0.07
10/26/2015	19:00	21.0	1080	3	111	27	1102	154	86	390	44.70	1207.94	4831.76	4	2410.86	1.505E-04	0.40	0.47	0.07
10/26/2015	19:30 20:00	21.0 21.0	1063 1052	3	109 109	27 27	1124 1118	146 145	87 87	420 450	44.15 43.69	1232.05 1225.48	4928.22 4901.91	4	2458.99 2445.86	1.535E-04 1.527E-04	0.41	0.47 0.46	0.08
10/26/2015	20:30	21.0	1064	3	110	28	1138	159	86	480	44.12	1247.40	4989.60	4	2445.86	1.554E-04	0.40	0.48	0.07
10/26/2015	21:30	21.0	1087	3	109	28	1112	167	85	540	45.15	1218.90	4875.60	4	2432.74	1.519E-04	0.41	0.48	0.08
10/26/2015	22:30	21.0	1091	3	108	28	1101	165	85	600	45.39	1206.84	4827.37	4	2408.67	1.504E-04	0.41	0.47	0.08
10/26/2015	23:30	21.0	1077	3	107	28	1133	181	84	660	44.89	1241.92	4967.68	4	2478.68	1.547E-04	0.42	0.48	0.08
10/27/2015	0:00	21.0	1065	3	105	29	1082	141	87	690	44.55	1186.02	4744.07	4	2367.11	1.478E-04	0.39	0.46	0.07
10/27/2015	8:00	21.0	1132	3	112	25	1163	175	85	1170	46.77	1274.80	5099.21	4	2544.31	1.588E-04	0.45	0.52	0.08
10/27/2015	9:00	21.0	1101	3	114	27	1094	171	84	1230	45.33	1199.17	4796.68	4	2393.36	1.494E-04	0.41	0.47	0.08
10/27/2015	10:00	21.0	1029	3	117	24	1085	152	86	1290	42.15	1189.30	4757.22	4	2373.67	1.482E-04	0.37	0.43	0.07
10/27/2015 10/27/2015	11:00 12:00	21.0 21.0	1108 1094	3	115 113	22 25	1090 1098	148 150	86 86	1350 1410	45.54 45.12	1194.79 1203.55	4779.14 4814.22	4	2384.61 2402.11	1.489E-04 1.500E-04	0.41	0.47	0.08
10/27/2015	14:00	21.0	1094	3	115	25	1102	164	85	1530	44.47	1203.93	4831.76	4	2410.86	1.505E-04	0.41	0.47	0.08
10/27/2015	16:00	21.0	1109	3	117	28	1084	216	80	1650	45.42	1188.21	4752.83	4	2371.48	1.481E-04	0.40	0.47	0.07
10/27/2015	18:00	21.0	1117	3	119	27	1073	203	81	1770	45.59	1176.15	4704.61	4	2347.42	1.465E-04	0.40	0.46	0.07
10/27/2015	20:00	21.0	1094	3	118	28	1058	190	82	1890	44.73	1159.71	4638.84	4	2314.60	1.445E-04	0.39	0.45	0.07
10/27/2015	22:00	21.0	1121	3	117	28	1063	191	82	2010	45.91	1165.19	4660.76	4	2325.54	1.452E-04	0.40	0.46	0.07
10/28/2015	0:00	21.0	1103	3	115	29	1055	201	81	2130	45.33	1156.42	4625.68	4	2308.04	1.441E-04	0.39	0.45	0.07
10/28/2015	8:00	21.0	1118	3	116	28	907	154	83	2610	45.87	994.19	3976.77	4	1984.26	1.239E-04	0.34	0.39	0.06
10/28/2015	10:00	21.0	1121	3	116	28	921	129	86	2730	45.99	1009.54	4038.16	4	2014.88	1.258E-04	0.35	0.40	0.06
10/28/2015	12:00 14:00	21.0 21.0	1102 1119	3	116 117	27 28	937 925	150 139	84 85	2850 2970	45.21 45.83	1027.08 1013.92	4108.31 4055.69	4	2049.89	1.280E-04 1.263E-04	0.35 0.35	0.40	0.06
10/28/2015	16:00	21.0	1131	3	117	25	941	122	85	3090	46.24	1013.92	4125.85	4	2023.63	1.285E-04	0.35	0.40	0.06
10/28/2015	18:00	21.0	1128	3	117	27	928	130	86	3210	46.20	1017.21	4068.85	4	2030.20	1.267E-04	0.35	0.41	0.07
10/28/2015	20:00	21.0	1114	3	115	26	908	145	84	3330	45.79	995.29	3981.16	4	1986.44	1.240E-04	0.34	0.39	0.06
10/28/2015	22:00	21.0	1092	3	115	27	877	131	85	3450	44.88	961.31	3845.24	4	1918.62	1.198E-04	0.32	0.37	0.06
10/29/2015	0:00	21.0	1098	3	115	27	854	130	85	3570	45.13	936.10	3744.39	4	1868.31	1.166E-04	0.32	0.37	0.06
10/29/2015	8:00	21.0	1081	3	116	26	858	120	86	4050	44.35	940.48	3761.93	4	1877.06	1.172E-04	0.31	0.36	0.06
10/29/2015	10:00	21.0	1089	3	116	26	866	121	86	4170	44.68	949.25	3797.01	4	1894.56	1.183E-04	0.32	0.37	0.06
10/29/2015	12:00	21.0 21.0	1092 1097	3	117 117	27	847 855	119 136	86 84	4290 4410	44.73 44.93	928.43	3713.70	4	1852.99	1.157E-04	0.31	0.36	0.06
10/29/2015	14:00 16:00	21.0	1097	3	117	27 27	855	136	84	4410 4530	44.93	937.19 924.04	3748.78 3696.16	4	1870.49 1844.24	1.168E-04 1.151E-04	0.31	0.36	0.06
10/29/2015	18:00	21.0	1107	3	116	28	849	110	87	4650	45.42	930.62	3722.47	4	1857.37	1.151E-04 1.160E-04	0.31	0.36	0.06
10/29/2015	20:00	21.0	1093	3	115	27	838	117	86	4770	44.92	918.56	3674.24	4	1833.30	1.145E-04	0.32	0.36	0.06
10/29/2015	22:00	21.0	1087	3	117	27	832	125	85	4890	44.52	911.98	3647.93	4	1820.18	1.136E-04	0.30	0.35	0.06
10/30/2015	0:00	21.0	1091	3	118	26	835	125	85	5010	44.61	915.27	3661.09	4	1826.74	1.140E-04	0.31	0.35	0.06
10/30/2015	8:00	21.0	1095	3	118	26	833	133	84	5490	44.77	913.08	3652.32	4	1822.36	1.138E-04	0.31	0.35	0.06
10/30/2015	10:00	21.0	1092	3	118	27	848	136	84	5610	44.65	929.52	3718.08	4	1855.18	1.158E-04	0.31	0.36	0.06
10/30/2015	12:00	21.0	1107	3	118	27	856	120	86	5730	45.26	938.29	3753.16	4	1872.68	1.169E-04	0.32	0.37	0.06
10/30/2015	12:30	21.0	1109	3	118	27	839	118	86	5760	45.34	919.66	3678.62	4	1835.49	1.146E-04	0.31	0.36	0.06
Average Bws =	0.088	21.0 Bwsw:	1080.3	3.0	113.8	27.2	1017	151	85		44.50	1114.42		4		1.389E-04 on Recovere	0.37	0.43	0.07 35.59
DWS =	0.088	BWSW:	0.06	l								Tota				on Recovere			35.59 41 18

Total Pounds of Gasoline Vapor Recovered as Emissions: 41.18 Total Gallons of Gasoline Recovered as Emissions: 6.59

(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

AFVR Definitions and Equations

Qstd = (60 sec/min) (1- Bws) (velocity) (Pipe ID sq.ft.) [(528 oR / (Temp. + 460)] (Listed As Flow Above)

 $Bws = (B_{wsw} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)

 $Cc = Ccm (62.43 E - 9 lb - m^3 / mg - ft^3)$

PMRg = (PMRc) (Mg/Mcg)

Bgs = below top of casing

 $Bws = (B_{WSW} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

Qstd = (60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm³, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

 $K_3 = 24.07 \text{ dsm}^3/10^6 \text{ mg-mole}$, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K₃)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE (EVENT 1) WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 OCTOBER 19-23, 2015

Well#	OCTOBER	,	DW 2
Well # Elapsed Time	MW-4 Stinger Depth (ft)*	Well # Elapsed Time	RW-2 Stinger Depth (ft)*
0	17.75	0	17.50
0.5	17.75	0.5	17.50
1	17.75	1	17.50
1.5	17.75	1.5	17.50
2	17.75	2	17.50
2.5	17.75	2.5	17.50
3	17.75	3	17.50
3.5	17.75	3.5	17.50
4	17.75	4	17.50
4.5	17.75	4.5	17.50
5	17.75	5	17.50
5.5	18.50	5.5	18.50
6	18.50	6	18.50
6.5	18.50	6.5	18.50
7	18.50	7	18.50
7.5	18.50	7.5	18.50
8	18.50	8	18.50
9	18.50	9	18.50
10	18.50	10	18.50
10.5	18.50	10.5	18.50
18.5	18.50	18.5	18.50
19.5	18.50	19.5	18.50
20.5	18.50	20.5	18.50
21.5	18.50	21.5	18.50
22.5	18.50	22.5	18.50
23.5	18.50	23.5	18.50
25.5	18.50	25.5	18.50
27.5	18.50	27.5	18.50
29.5	18.50	29.5	18.50
31.5	18.50	31.5	18.50
33.5	18.50	33.5	18.50
34.5	18.50	34.5	18.50
42.5	18.50	42.5	18.50
44.5	18.50	44.5	18.50
46.5	18.50	46.5	18.50
48.5	18.50	48.5	18.50
50.5	18.50	50.5	18.50
52.5 54.5	18.50	52.5 54.5	18.50
	18.50		18.50
56.5 58.5	18.50 18.50	56.5 58.5	18.50 18.50
66.5	18.50	66.5	18.50
68.5	18.50	68.5	18.50
70.5	18.00	70.5	18.00
70.5	18.00	70.5	18.00
74.5	18.00	74.5	18.00
76.5	18.00	76.5	18.00
78.5	18.00	78.5	18.00
80.5	18.00	80.5	18.00
82.5	18.00	82.5	18.00
90.5	18.00	90.5	18.00
92.5	18.00	92.5	18.00
94.5	18.00	94.5	18.00
96	18.00	96	18.00
, -	the top of the well casing.		23,00

^{*}Measured relative to the top of the well casing.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE (EVENT 2)

WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 OCTOBER 26-30, 2015

OCTOBER 26-30, 2015									
Well#	MW-2R	Well #	RW-1						
Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*						
0	18.0	0	18.0						
0.5	18.0	0.5	18.0						
1	18.5	1	18.5						
1.5	18.5	1.5	18.5						
2	18.5	2	18.5						
2.5	18.5	2.5	18.5						
3	18.5	3	18.5						
3.5	18.5	3.5	18.5						
4	19.0	4	19.0						
4.5	19.0	4.5	19.0						
5	19.0	5	19.0						
5.5	19.0	5.5	19.0						
6	19.0	6	19.0						
6.5	19.0	6.5	19.0						
7	19.0	7	19.0						
7.5	19.0	7.5	19.0						
8	19.0	8	19.0						
9	19.0	9	19.0						
10	19.0	10	19.0						
11	19.0	11	19.0						
11.5	19.0	11.5	19.0						
19.5	19.0	19.5	19.0						
20.5	19.0	20.5	19.0						
21.5	19.0	21.5	19.0						
22.5	19.0	22.5	19.0						
23.5	19.0	23.5	19.0						
25.5	19.0	25.5	19.0						
27.5	19.0	27.5	19.0						
29.5	19.0	29.5	19.0						
31.5	19.0	31.5	19.0						
33.5	19.0	33.5	19.0						
35.5	19.0	35.5	19.0						
43.5	19.0	43.5	19.0						
45.5	19.0	45.5	19.0						
47.5	19.0	47.5	19.0						
49.5	19.0	49.5	19.0						
51.5	19.0	51.5	19.0						
53.5	19.0	53.5	19.0						
55.5	19.0	55.5	19.0						
57.5	19.0	57.5	19.0						
59.5	19.0	59.5	19.0						
67.5	19.0	67.5	19.0						
69.5	19.0	69.5	19.0						
71.5	19.0	71.5	19.0						
73.5	19.0	73.5	19.0						
75.5	19.0	75.5	19.0						
77.5	19.0	77.5	19.0						
79.5	19.0	79.5	19.0						
81.5	19.0	81.5	19.0						
83.5	19.0	83.5	19.0						
91.5	19.0	91.5	19.0						
93.5	19.0	93.5	19.0						
95.5	19.0	95.5	19.0						
96	19.0	96	19.0						

^{*}Measured relative to the top of the well casing.

SECTION F-3 VACUUM DATA TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 OCTOBER 19-23, 2015

*** ** #			19-23, 2015	*** ** #	2 5777 4 5
Well #	MW-1	Well #	MW-12	Well #	MW-13
Elapsed	Vacuum (in	Elapsed	Vacuum (in	Elapsed	Vacuum (in
Time	H2O)	Time	H2O)	Time	H2O)
0	0.65	0	0.10	0	0.0
0.5	0.70	0.5	0.10	0.5	0.0
1	0.75	1	0.10	1	0.0
1.5	0.75	1.5	0.15	1.5	0.10
2	0.75	2	0.15	2	0.10
2.5	0.75	2.5	0.15	2.5	0.10
3	1.0	3	0.20	3	0.15
3.5	1.0	3.5	0.20	3.5	0.15
4	1.0	4	0.20	4	0.15
4.5	1.0	4.5	0.20	4.5	0.15
5	1.0	5	0.20	5	0.15
5.5	1.0	5.5	0.20	5.5	0.15
6		6	0.20	6	0.15
	1.0				
6.5	1.0	6.5	0.20	6.5	0.15
7	1.0	7	0.20	7	0.15
7.5	1.0	7.5	0.20	7.5	0.15
8	1.0	8	0.20	8	0.15
9	1.0	9	0.20	9	0.15
10	1.0	10	0.20	10	0.15
10.5	1.0	10.5	0.20	10.5	0.15
18.5	1.0	18.5	0.20	18.5	0.15
19.5	1.0	19.5	0.20	19.5	0.15
20.5	1.0	20.5	0.20	20.5	0.15
21.5	1.0	21.5	0.20	21.5	0.15
22.5	1.0	22.5	0.20	22.5	0.15
23.5	1.0	23.5	0.20	23.5	0.15
25.5	1.0	25.5	0.20	25.5	0.15
27.5	1.0	27.5	0.20	27.5	0.15
29.5	1.0	29.5	0.20	29.5	0.15
31.5	1.0	31.5	0.20	31.5	0.15
33.5	1.0	33.5	0.20	33.5	0.15
34.5	1.0	34.5	0.20	34.5	0.15
42.5	1.0	42.5	0.20	42.5	0.15
44.5	1.0	44.5	0.20	44.5	0.15
46.5	1.0	46.5	0.20	46.5	0.15
48.5	1.0	48.5	0.20	48.5	0.15
50.5	1.0	50.5	0.20	50.5	0.15
52.5	1.0	52.5	0.20	52.5	0.15
54.5	1.0	54.5	0.20	54.5	0.15
56.5	1.0	56.5	0.20	56.5	0.15
58.5	1.0	58.5	0.20	58.5	0.15
66.5	1.0	66.5	0.20	66.5	0.15
68.5	1.0	68.5	0.20	68.5	0.15
70.5	1.0	70.5	0.20	70.5	0.15
72.5	1.0	72.5	0.20	72.5	0.15
74.5	1.0	74.5	0.20	74.5	0.15
76.5	1.0	76.5	0.20	76.5	0.15
78.5	1.0	78.5	0.20	78.5	0.15
80.5	1.0	80.5	0.20	80.5	0.15
82.5	1.0	82.5	0.20	82.5	0.15
90.5	1.0	90.5	0.20	90.5	0.15
92.5	1.0	92.5	0.20	92.5	0.15
94.5	1.0	94.5	0.20	94.5	0.15
96	1.0	96	0.20	96	0.15
	-		-		-

SECTION F-3 VACUUM DATA TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

OCTOBER 26-30, 2015

XX7-11 #	OCTOBER 20-30, 2015										
Well #	MW-1 Vacuum (in	Well #	MW-8 Vacuum (in	Well #	MW-15 Vacuum (in						
Elapsed Time		Elapsed Time	,	Elapsed Time							
	H2O)		H2O)		H2O)						
0	0.8	0	0.0	0	0.0						
0.5	0.8	0.5	0.0	0.5	0.0						
1	0.8	1	0.0	1	0.0						
1.5	0.8	1.5	0.0	1.5	0.0						
2	0.8	2	0.0	2	0.0						
2.5	0.8	2.5	0.0	2.5	0.0						
3	0.8	3	0.0	3	0.0						
3.5	0.8	3.5	0.0	3.5	0.0						
4	0.6	4	0.0	4	0.0						
4.5	0.6	4.5	0.0	4.5	0.0						
5	0.6	5	0.0	5	0.0						
5.5	0.6	5.5	0.0	5.5	0.0						
6	0.6	6	0.0	6	0.0						
6.5	0.6	6.5	0.0	6.5	0.0						
7	0.6	7	0.0	7	0.0						
7.5	0.6	7.5	0.0	7.5	0.0						
8	0.6	8	0.0	8	0.0						
9	0.6	9	0.0	9	0.0						
10	0.6	10	0.0	10	0.0						
11	0.6	11	0.0	11	0.0						
11.5	0.6	11.5	0.0	11.5	0.0						
19.5	0.6	19.5	0.0	19.5	0.0						
20.5	0.6	20.5	0.0	20.5	0.0						
21.5	0.6	21.5	0.0	21.5	0.0						
22.5	0.6	22.5	0.0	22.5	0.0						
23.5	0.6		0.0	23.5	0.0						
25.5	0.6	23.5	0.0	25.5							
27.5	0.6	25.5 27.5	0.0	27.5	0.0						
29.5	0.4	29.5	0.0	29.5	0.0						
31.5	0.4	31.5	0.0	31.5	0.0						
33.5	0.4	33.5	0.0	33.5	0.0						
35.5	0.4	35.5	0.0	35.5	0.0						
43.5	0.4	43.5	0.0	43.5	0.0						
45.5	0.4	45.5	0.0	45.5	0.0						
47.5	0.4	47.5	0.0	47.5	0.0						
49.5	0.4	49.5	0.0	49.5	0.0						
51.5	0.4	51.5	0.0	51.5	0.0						
53.5	0.4	53.5	0.0	53.5	0.0						
55.5	0.4	55.5	0.0	55.5	0.0						
57.5	0.4	57.5	0.0	57.5	0.0						
59.5	0.4	59.5	0.0	59.5	0.0						
67.5	0.4	67.5	0.0	67.5	0.0						
69.5	0.4	69.5	0.0	69.5	0.0						
71.5	0.4	71.5	0.0	71.5	0.0						
73.5	0.4	73.5	0.0	73.5	0.0						
75.5	0.4	75.5	0.0	75.5	0.0						
77.5	0.4	77.5	0.0	77.5	0.0						
79.5	0.4	79.5	0.0	79.5	0.0						
81.5	0.4	81.5	0.0	81.5	0.0						
83.5	0.4	83.5	0.0	83.5	0.0						
91.5	0.4	91.5	0.0	91.5	0.0						
93.5	0.4	93.5	0.0	93.5	0.0						
95.5	0.4	95.5	0.0	95.5	0.0						
95.5	0.4	93.3	0.0	93.3	0.0						



6. Mass of Petroleum Recovered as Vapor

82.35 pounds of volatile organic vapors (approximate equivalent of 13.18 gallons of gasoline) were recovered during the course of the 96-hour event conducted October 19, 2015 through October 23, 2015. 41.18 pounds of volatile organic vapors (approximate equivalent of 6.59 gallons of gasoline) were recovered during the course of the 96-hour event conducted October 26, 2015 through October 30, 2015. A total of 123.53 pounds of gasoline vapors (approximate equivalent of 19.77 gallons of gasoline) were recovered as emissions during the two events. Off-gas treatment was provided during the events as directed by the SCDHEC Project Manager.

7. Free Product Thickness Table

Free Product Thickness Table (Event 1) - Attached

Free Product Thickness Table (Event 2) – Attached

Free Product Thickness Table (Gauging) - Attached

8. AFVR Event Map

Figure F-8 AFVR Map (Event 1) – Attached

Figure F-8 AFVR Map (Event 2) - Attached

9. Recovery Water Disposal

The disposal manifests for the recovery water generated during the October 19-23, 2015 and October 26-30, 2015 AFVR Events are included in Appendix G.

SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 OCTOBER 19-23, 2015

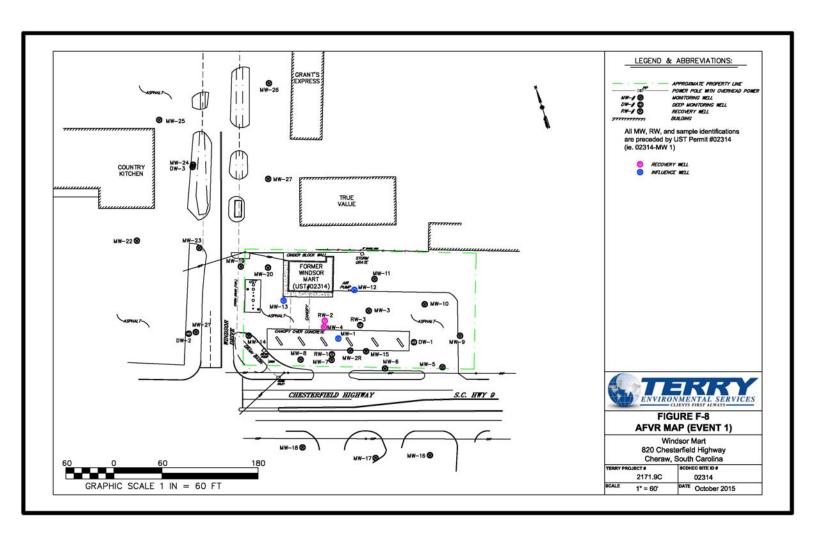
Well #	-	Depth to Product	Depth to Water	Product Thickness
MW-4	Initial	17.78	19.89	2.11
101 00 -4	Final	n/a	19.41	n/a
RW-2	Initial	17.67	19.31	1.64
KW-Z	Final	n/a	18.45	n/a
MW-1	Initial	18.55	20.40	1.85
101 00 -1	Final	18.45	20.42	1.97
MW-12	Initial	n/a	17.65	n/a
W1 W -12	Final	n/a	17.82	n/a
MW-13	Initial	18.07	18.32	0.25
101 00 -113	Final	17.90	18.15	0.25

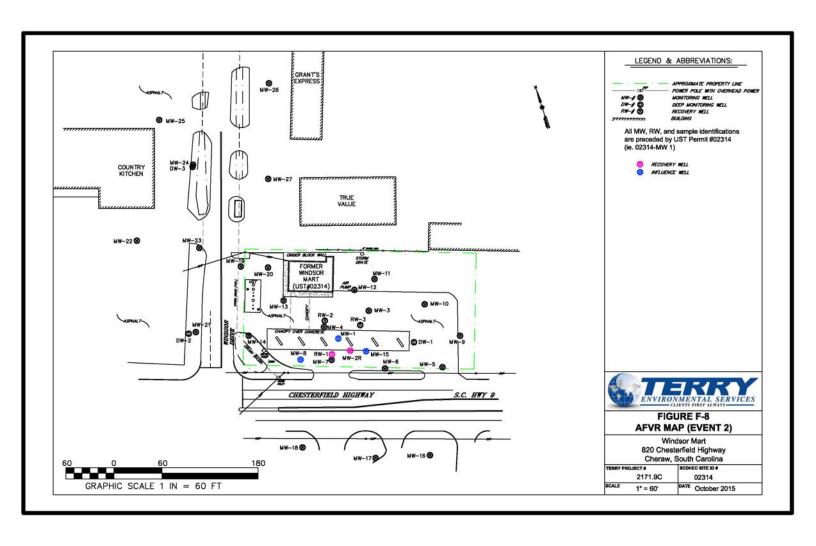
SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 OCTOBER 26-30, 2015

Well#	1	Depth to Product	Depth to Water	Product Thickness
MW-2R	Initial	18.63	19.46	0.83
IVI VV -2IX	Final	n/a	18.95	n/a
RW-1	Initial	18.74	19.44	0.70
IX VV - 1	Final	n/a	19.03	n/a
MW-1	Initial	18.31	21.37	3.06
IVI VV - I	Final	18.73	19.28	0.55
MW-8	Initial	n/a	18.79	n/a
IVI W -0	Final	n/a	18.88	n/a
MW-15	Initial	n/a	18.74	n/a
14144-13	Final	n/a	18.89	n/a

SECTION F-7 FREE PRODUCT THICKNESS TABLE (GAUGING) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 NOVEMBER 13, 2015

Well#	Depth to Product	Depth to Water	Product Thickness
MW-1	16.00	17.28	1.28
MW-2R	16.34	16.48	0.14
MW-3	n/a	13.83	n/a
MW-4	15.24	17.16	1.92
MW-13	15.25	15.45	0.20
RW-1	16.41	16.60	0.19
RW-2	15.72	16.11	0.39







G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, two 96-hour AFVR events were performed at the subject site. Prior to the October 19-23, 2015 event, free-phase product was measured in MW-1 (1.85 feet), MW-4 (2.11 feet), MW-13 (0.25 feet) and RW-2 (1.64 feet). Upon completion of the event, free-phase product was measured in MW-1 (1.97 feet) and MW-13 (0.25 feet). Prior to the October 26-30, 2015 event, free-phase product was measured in MW-1 (3.06 feet), MW-2R (0.83 feet) and RW-1 (0.70 feet). Upon completion of the event, free-phase product was measured in MW-1 (0.55 feet). A total of 123.53 pounds of gasoline vapors (approximate equivalent of 19.77 gallons of gasoline) were recovered as emissions during the events.

On November 13, 2015 approximately fifteen (15) days after the completion of the second AFVR Event, a gauging event was performed on MW-1, MW-2R, MW-3, MW-4, MW-13, RW-1, and RW-2 to obtain current data. Free-phase product was measured in MW-1 (1.28 feet), MW-2R (0.14 feet), MW-4 (1.92 feet), MW-13 (0.20 feet), RW-1 (0.19 feet), and RW-2 (0.39 feet). Depth to groundwater was measured between 13 and 18 feet below the top of casing. The Gauging Logs are provided in Appendix B.

The AFVR event was successful at recovering contaminant mass and dewatering the source area. As such, it is recommended to conduct two additional 96-hour AFVR events on the monitoring/recovery well network in the source area.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Potentiometric Data - Not Applicable

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Not Applicable

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

4. Site Potentiometric Maps

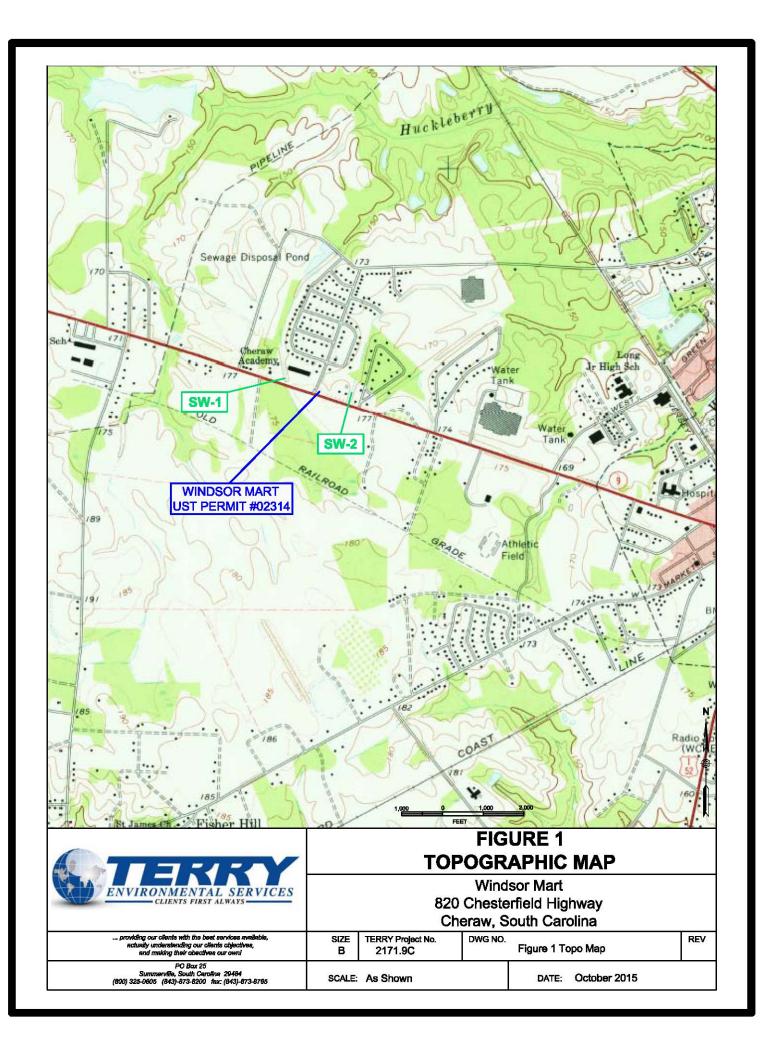
Figure 5 Site Potentiometric Map – Not Applicable

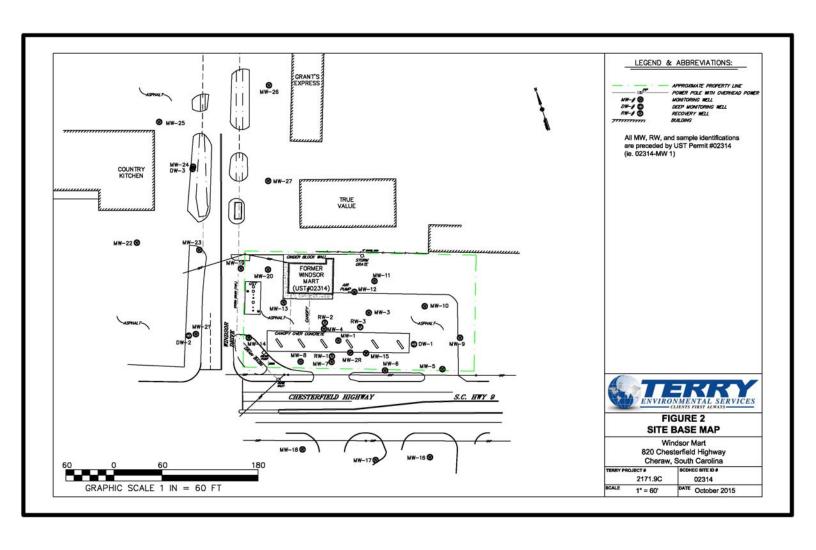
5. Geologic Cross Sections

Figure 6 Geologic Cross Sections - Not Applicable

6. Predicted Migration and Attenuation of CoCs

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable







K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifest
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

11

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

TER	RYE	nvironmental	Services	5			Summervill	P.O. Box 25 le, SC 29484 00-325-0605		
	Site Specific	c Information		Monitoring Well Information						
Terry Proje	ct ID	2171.9C			Well ID	02314 -	mw-1			
SCDHEC Permi	SCDHEC Permit No. 02314									
Project N	Name	Windsor Mart		Test	ing Parameters	Gau	ge Well Onl	e Well Only		
Date / 1/3 /2015										
Field Perso	Field Personnel				Well Diameter	2	in	TAG		
General Wes	General Weather Sww					/	ft	TAG BOTTOM OF		
Ambient Air Tempere	ature	70		Total Well Dep	th (nearest 0.1')		ft	WELL TO		
	Quality .	Assurance		Depth to Groundwate	er (nearest 0.01')		ft	VERIFY WELL		
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length of	Water Column		ft	DEPTH, WRITE		
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing	Volume (0.163)		ft	BELOW TO		
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing V	olumes (0.489)		gals	NEAREST 0.1'		
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total	Volume Purged		gals	0.1		
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utili	ized (bailer, pum	p)				
Last Calibration (time)		Last Verification √(time)		Well Yield Low □		Medium	High \square			
Volume	(gal)									
Time (mili	itary) 1215									
pH	l (su)									
Spec Conductivity (mS	S/cm)									
Water Temperature	· (°C)									
Turbidity (!	VTU)		0							
Dissolved Oxygen (n										
	Well Condition	on Information			Additiona	l Comments				
-overall condition accept	table?			Difference	1.28-					
-well cap accept	table?			DTP : 14.00	•					
-manhole and cover accept	table? ONIT	bot Missing		DW: 17.28						
-well pad accept	table?			TD: 20.0						
-area	safe?									
-other comments (COLOR: MET SMAN						

TER	15	YEn	vironmental	Services	<u>S</u>				P.O. Box 25 lle, SC 29484 00-325-0605		
	Site	e Specific I	Information		Monitoring Well Information						
Terry Proje	ct ID		2171.9C			Well ID	02314 -	mw-ZR			
SCDHEC Permi	it No.		02314								
Project Name Windsor Mart					Test	ting Parameters	Gau	ge Well On	ly		
	Date 11 /13 /2015						* 1000 000 000 000 000 000 000 000 000 0				
Field Perso	onnel		MT			Well Diameter	2	in			
General We	neral Weather SUNN					reened Interval	/	ft	TAG BOTTOM OF		
Ambient Air Temper	ature		70'		Total Well Dep	th (nearest 0.1')		ft	WELL TO		
		Quality As	ssurance		Depth to Groundwate	er (nearest 0.01')		ft	VERIFY WELL		
pH Meter	Hor	iba U-52-2	Conductivity Meter	Horiba U-52-2	Length of	Water Column		ft	DEPTH, WRITE		
Serial Number	VW	/KAUMKJ	Serial Number	VWKAUMKJ	1 Casing	Volume (0.163)		ft	BELOW TO		
Calibration Constant		4.00	Calibration Constant	4.49 mS/cm	3 Casing V		gals	NEAREST 0,1'			
Calibration Constant		6.86	Calibration Constant	53.0 mS/cm	Total		gals	1 "			
Calibration Constant		9.18	Calibration Constant	58.7 mS/cm	Purge Technique Util	ized (bailer, pum	p)				
Last Calibration (time)			Last Verification √(time)		Well Yield Low □		Medium	High \square			
Volume	(gal)										
Time (mili	itary)	1230									
pH	I (su)										
Spec Conductivity (m.S	S/cm)										
Water Temperature	(°C)										
Turbidity (1	NTU)										
Dissolved Oxygen (n											
	Well	Condition	Information			Additiona	d Comments				
-overall condition accept	table?	ines			DTP 100.34.						
-well cap accept	table?	81			pTW 16.48	1					
-manhole and cover acceptable?				TD: 20.3							
-well pad accept	table?				nistonenu: 0	1.14					
-area	safe?	L					2.4				
-other com	ments				Med. supre	2 colox					

TER	150	En	Vironn es first alw	nental ,	Services	5				5	Summervill	P.O. Box 25 e, SC 29484 00-325-0605	
	Site S	pecific .	Informatio	n		Monitoring Well Information							
Terry Proje	ect ID		21	71.9C				Well ID	023	14 -	mw-3		
SCDHEC Perm	it No.		02	2314									
Project 1	Name		Wind	sor Mart			Testin	g Parameters	(Gauge	Gauge Well Only		
	Date		11 /13	/2015									
Field Perso	onnel		MT				J	Well Diameter	2		in		
General We	ather		Sunn	7			Scre	ened Interval		1	ft	TAG BOTTOM OF	
Ambient Air Temper	ature		70			Total W	Vell Depth	(nearest 0.1')			ft	WELL TO	
Quality Assurance					Depth to Grou	undwater	(nearest 0.01')	/		ft	VERIFY WELL		
pH Meter	Horiba	U-52-2	Cona	luctivity Meter	Horiba U-52-2	Le	ength of V	Vater Column			ft	DEPTH, WRITE	
Serial Number	VWKA	UMKJ] 3	Serial Number	VWKAUMKJ	1	1 Casing Volume (0.163)				ft	BELOW TO	
Calibration Constant	4.	00	Calibra	tion Constant	4.49 mS/cm	3 Casing Volumes (0.489)				gals	NEAREST 0.1'		
Calibration Constant	6.	86	Calibra	tion Constant	53.0 mS/cm	Total Volume Purged					gals	0.1	
Calibration Constant	9.	18		ation Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pun			p)				
Last Calibration (time)			Last Verifi	cation √(time)		Well Yield Low □			Medium		High 🗆		
Volume	(gal)												
Time (mil	itary) 3	15											
pH	H (su)												
Spec Conductivity (m.	S/cm)												
Water Temperature	e (°C)												
Turbidity (NTU)												
Dissolved Oxygen (r													
	Well C	ondition	i Informati	on				Additiona	l Comme	nts			
-overall condition accep	table?					otp	_						
-well cap accep	table?					DTW	13.9	3					
-manhole and cover accep	table?	Steuch	to 121	WZTUR &	mud	TD: 7							
				Melked									
	safe? V			NAME OF THE PARTY									
-other com	ments												

TER	15	En	VIPONE S FIRST ALW	nental .	Services	<u>s</u>					Summervill	P.O. Box 2: e, SC 2948- 00-325-060:	
	Site Specific Information					Monitoring Well Information							
Terry Proje	ect ID		21	71.9C				Well ID			mw-4		
SCDHEC Permi	it No.	02314											
Project 1	Vame		Wind	lsor Mart		1	Test	ting Parameters	(Gauge	e Well Only	Only	
	Date		11 /13	/2015					100/01/04/02/05/04/05/1/02/05/04/04/04/04/04/04/04/04/04/04/04/04/04/				
Field Perso	onnel	ė.	MT					Well Diameter	1		in	T1.0	
General We	neral Weather S unn					Sc	reened Interval			ft	TAG BOTTOM O		
Ambient Air Temper	ature		70			Total	Well Dep	th (nearest 0.1')	,		ft	WELL TO VERIFY	
Quality Assurance				Depth to G	roundwate	er (nearest 0.01')			ft	WELL			
pH Meter	Ho	riba U-52-2	Cond	luctivity Meter	Horiba U-52-2	Length of Water Column				ft	DEPTH, WRITE		
Serial Number	VW	/KAUMKJ		Serial Number	VWKAUMKJ		1 Casing Volume (0.163)				ft BELO		
Calibration Constant		4.00	Calibro	ation Constant	4.49 mS/cm	3 Casing Volumes (0.489)					gals	NEAREST 0.1'	
Calibration Constant		6.86	Calibro	ation Constant	53.0 mS/cm	Total Volume Purged			/		gals	0.1	
Calibration Constant		9.18	Calibro	ation Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pun			p)				
Last Calibration (time)			Last Verifi	ication √(time)		Well Yield Low □		Medium		High \square			
Volume	(gal)												
Time (mili	itary)	1330											
pH	I (su)												
Spec Conductivity (m.	S/cm)												
Water Temperature	(°C)												
Turbidity (?	NTU)												
Dissolved Oxygen (n	ng/L)												
	Well	Condition	Informati	ion				Additiona	l Comme	nts			
-overall condition accept	table?					DIP: 19	5.24	-					
-well cap acceptable?				DTW: 1=									
-manhole and cover accept	table?	no botte	<		-6-	Ditter	enu:	1.92					
-well pad accept						piffer TD. 72	0,0		3.1				
-area	safe?					-							
							330						

TER	RYE	vironmental .	Services	<u>s</u>			Summervil	P.O. Box 25 le, SC 29484 00-325-0605		
	Site Specific	Information		Monitoring Well Information						
Terry Projec	et ID	2171.9C			Well ID	02314 -	mw-i	3		
SCDHEC Permit	t No.	02314				7.1.77				
Project N	ame	Windsor Mart		Testing Parameters Gauge W			ge Well Onl	e Well Only		
Date ((/\3 /2015										
Field Perso	Field Personnel MT				Well Diameter	2	in	TAG		
General Weather SUNNY				Sci	reened Interval		ft	TAG BOTTOM OF		
Ambient Air Tempera	ture	70.		Total Well Dept	h (nearest 0.1')		ft	WELL TO VERIFY		
Quality Assurance				Depth to Groundwate	r (nearest 0.01')		ft	WELL		
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length of	Water Column	/	ft	DEPTH, WRITE		
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing Volume (0.163) 3 Casing Volumes (0.489)			ft	BELOW TO		
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm				gals	NEAREST 0.1'		
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total V	(gals				
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utili	T.L.					
Last Calibration (time)		Last Verification √(time)		Well Yield Low □		Medium	High 🗆			
Volume	(gal)									
Time (mili	tary) 1345									
pН	(su)									
Spec Conductivity (mS	(cm)									
Water Temperature	(°C)									
Turbidity (N	VTU)									
Dissolved Oxygen (m	0									
	Well Conditio	n Information		Additional Comments						
-overall condition accept	able?			DTD: 15.25	· DHA	chence: C). 20'			
-well cap acceptable?				pTW: 15.45	,					
-manhole and cover acceptable?				TD: 20.3'						
-well pad accept	able?			light subch	_					
-area	safe?			J -						
-other com	mante									

TER	R		Vironn es first alwa		Services	<u>5</u>					Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific Information				Monitoring Well Information							
Terry Proje	ect ID		211	71.9C				Well ID	02	314 -	12W-1	
SCDHEC Perm	SCDHEC Permit No. 02314											
Project Name Windsor Mart						Testing Parameters Gauge Well (ge Well Onl	Only		
Date 11 / 13/2015												
Field Personnel NT						j	Well Diameter	4		in		
General We	General Weather SUMM						Scre	eened Interval		7	ft	TAG BOTTOM OI
Ambient Air Temper	ature		70		, ,	Total	Well Depth	(nearest 0.1')		/	ft	WELL TO
Quality Assurance					Depth to Gi	roundwater	(nearest 0.01')		7	ft	VERIFY WELL	
pH Meter	Но	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of V	Vater Column			ft	DEPTH, WRITE
Serial Number	٧V	VKAUMKJ	S	Serial Number	VWKAUMKJ		1 Casing Volume (0.163)				ft	BELOW TO
Calibration Constant		4.00	4.00 Calibration Constant 4.		4.49 mS/cm	3 Casing Volumes (0.489)					gals	NEAREST 0.1'
Calibration Constant		6.86	Calibra	tion Constant	53.0 mS/cm	Total Volume Purged			Y		gals	V
Calibration Constant		9.18	Calibra	tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pun			ip)			
Last Calibration (time)			Last Verification √(time)			Well Yield Low 🗆		Medium		High 🗌		
Volume	(gal)											
Time (mil	itary)	1240										
рН	I (su)											
Spec Conductivity (m.	S/cm)											
Water Temperature	e (°C)											
Turbidity (NTU)											
Dissolved Oxygen (r												
	Well	l Condition	Informati	on				Addition	al Comm	ents		
-overall condition accep	table?					DTP -	14.4					
-well cap acceptable?				prw-	- 118.60	Ó						
-manhole and cover accep	table?						unice:					
-well pad accep	table?					TP: 3	50.0					
-area	safe?					COIDR	· ned.	mber				
.41												

TER	RYEN	vironmental s	Services	<u>S</u>				P.O. Box 2: lle, SC 29484 300-325-060		
	Site Specific	Information		Monitoring Well Information						
Terry Proje	ect ID	2171.9C			Well ID		02314 - 12 w-2			
SCDHEC Perm	it No.	02314								
Project Name Windsor Mart				T	esting Parameters	Gauge Well On		lv		
Date 11 /13 /2015				0.50	•			•		
Field Pers	Field Personnel MT				Well Diameter	4	in	92000		
General We	General Weather Sunny					,	ft	TAG BOTTOM O		
Ambient Air Temper	rature	70.		Total Well D	epth (nearest 0.1')		ft	WELL TO		
	Quality A	ssurance		Depth to Groundw	ater (nearest 0.01')		ft	VERIFY WELL		
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length	of Water Column		ft	DEPTH, WRITE		
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casin	g Volume (0.163)		ft	BELOW TO		
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)		/	gals	NEAREST 0.1'		
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Tota	al Volume Purged		gals] "		
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique U	tilized (bailer, pum	p)				
Last Calibration (time)		Last Verification √(time)		Well Yield Low		Medium	High \square			
Volume	(gal)									
Time (mil	litary) 1400									
pl	H (su)									
Spec Conductivity (m.	S/cm)									
Water Temperature	e (°C)		22							
Turbidity (NTU)									
Dissolved Oxygen (r	0									
	Well Condition	n Information			Additiona	l Comments				
-overall condition accep	table?			DTR: 157	2-					
-well cap accep	DW: 16.1	1-								
-manhole and cover acceptable?				Difference	: 0.39					
-well pad accep	table?			TD: 30						
-area	safe?									
-other comments				light surbur						

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifest

Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):	-	Waste ID Nun	nber:	
2. Generator's Name and Mailing Address:		Phone ()	+ 2171 01
Windsor Mart		PO#:		1 2171.90
Cheraw, SC			U ST=	± 07314
Agent of Generator and Mailing Address:	-	Phone (7	13) 873	-8100
Terry Environmental Services		PO#: 7	5	
Summerille, SC	*	*	1	
4. Transporter Company Name: Goods(1) Transport Glod Mt. Holy ID		Phone (-)	
Truck & Trailer License Number: Good Crak, SC				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:		alling Adding		Phone: (843) 797-3111
US Water Recovery	US	water Recov	ery	Fax: (843) 797-1884
511 Old Mt. Holly Rd. Goose Creek, SC 29445		Old Mt. Holly e Creek, SC 2		
7 Facility U.S. EPA ID#:		77	-	.ee
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Cont	olean	1 India	01"
	A CONTRACTOR OF THE PARTY OF TH	Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water		VAC	GAL	5000
				4.
Park of the Control o	16	3 .	l en	
	4.			
Generator's Certification: I hereby declare that the contents of this consabove by proper shipping name and are classified, packed, marked and	signment are n	ot hazardous b	by definition or	listing and are fully and accurately described
to applicable international and national government regulations and the	laws of the \$ta	ate of South Ca	arolina. I further	certify that the contents of this consignment
are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature:	A A	ubmitted to an	d approved by	Date:
10. Transporter Acknowledgement of Receipt of Materials	VOON			70/10/13
Printed/Typed Name: Signature:	Dans	Il Br		Date: 10/26/15
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials	01	1	0	90
Printed/Typed Name: AUL Goods (Signature:	al	I She	roll	Date 10-20-15
White - Facility Yellow - Office	Pink	- Transpo	rter B	lue - Generator

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Non-Hazardous Manifest: Waste Water or	Drums	Numb	er:		
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:		
2. Generator's Name and Mailing Address:	The section	Phone (1 24	t2171.9c	
Windsor Mart		P O #:			
Chiraw, SC	Alexi -	1 Ο π.	ust	# 02314	
Agent of Generator and Mailing Address:		Phone (843)873 - 8200			
Terry Environmental Services		PO#: 25			
Summerville, SC	1 11	1.)	A RY	
4. Transporter Company Name:	Phone ()	*		
571 old mt Holly PD					
Truck & Trailer License Number: 6,6054 Crack, SC					
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:	N	lailing Addres	s:	Phone: (843) 797-3111	
US Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov Old Mt. Holly	ery	Fax: (843) 797-1884	
Goose Creek, SC 29445		se Creek, SC 2			
7 Facility U.S. EPA ID#:	48				
Start Level: End Level:		Total Gallons		Tank Number	
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity	
a. Non-Hazardous, non-regulated waste water	101	VAC	GAL	5000	
		R. 12.57			
The second secon	70	i,			
	4 2 4		1-a repriéts		
 Generator's Certification: I hereby declare that the contents of this contabove by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the 	nd labeled, and	are in all resp	ects in proper	condition for transport by highway according	
are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature:	orm previously	submitted to an	nd approved by		
FVOUR . Tyler Waterhanh	Wa	<i>A</i> -		Date: 10/70/15	
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	Dunk	11		Date: 10/20/15	
11. Discrepancy Indication space:	0 200			6770	
12. Facility Owner or Operator: Certification of Receipt of Materials	0 0	^	~		
Printed/Typed Name: Paul Goods Signature:	Pal	Ster	cell	Date 10-20-15	
White - Facility Vellow - Office	Dink	- Transno	rtor D	due - Generator	

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表现是一种,我们们的表现是一种,我们就是一个人的,我们们们们的一个人的,我们们们的一个人的,我们们的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个	A STANSON OF THE STAN			
Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:	
2. Generator's Name and Mailing Address:	nd	Phone ()	
2. Generator's Name and Mailing Address: Conver Carbon, 820 Chestafi	eld Hwy	PO#		
cheran sc		1 0 11.		
Agent of Generator and Mailing Address: Ferry Env		Phone ()	
sunner 1/1e	1sti	PO#:73	5	
4. Transporter Company Name: Goodsell Service 511 old MT Holls	es,	Phone ()	
Truck & Trailer License Number: Goode Check 5L	29445			
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:	N	ailing Addres	s:	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.		Water Recov		Fax: (843) 797-1884
Goose Creek, SC 29445	J. 12820	se Creek, SC 2		
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Con	tainer	Unit	Quantity
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity
U.S. DOT Description a. Non-Hazardous, non-regulated waste water			Unit	Quantity 5200
7.00 C. 100 C.	No.	Туре		
7.00 C. 100 C.	No.	Туре		
7.00 C. 100 C.	No.	Туре		
a. Non-Hazardous, non-regulated waste water	No.	Type	Gal	
a. Non-Hazardous, non-regulated waste water	No.	Type	Gal	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the	nsignment are and labeled, and e laws of the S	not hazardous d are in all resptate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a	nsignment are and labeled, and e laws of the S	not hazardous d are in all resptate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials	nsignment are and labeled, and e laws of the S	not hazardous d are in all resptate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date:
9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature:	nsignment are and labeled, and e laws of the S	not hazardous d are in all resptate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility.
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials	nsignment are and labeled, and e laws of the S	not hazardous d are in all resptate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date:
9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature:	nsignment are and labeled, and e laws of the S	not hazardous d are in all resptate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date:
9. Generator's Certification: I hereby declare that the contents of this conductor above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the areas represented by the description contained on the Waste Profile For Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: 11. Discrepancy Indication space:	nsignment are and labeled, and e laws of the S	not hazardous d are in all resptate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date:

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Non-Hazardous Manifest: Waste Water or	Drums	Numb	er:		
Generator's EPA ID# (if applicable):		Waste ID Nur	mber:		
2. Generator's Name and Mailing Address:		Phone ()		
Jen Windsor Mart		P O #:		171. 9C	
Chiran, Sc		F O #.	UST	# 02314	
Agent of Generator and Mailing Address:		Phone (%)	431977	9-18	
Terry Environmental Surve	-8	Phone (543)873-8200			
Summing les Se	. 17	P O #: 7	15 4	4 . 4 . 4	
		Phone ()		
4. Transporter Company Name: Goodsoll Transport	my &D				
Truck & Trailer License Number: Groom Cruki	Se				
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:	N	lailing Addres	ss:	Phone: (843) 797-3111	
ÚS Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov Old Mt. Holly	very	Fax: (843) 797-1884	
Goose Creek, SC 29445		se Creek, SC 2			
7 Facility U.S. EPA ID#:					
Start Level: End Level:		Total Gallons		Tank Number	
8. U.S. DOT Description		tainer	Unit	Quantity	
	No.	Туре	1 11		
a. Non-Hazardous, non-regulated waste water		VAC	GAL	3000	
		rise on			
	3,000			*	
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				940.	
9. Generator's Certification: I hereby declare that the contents of this contents					
above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the					
are as represented by the description contained on the Waste Profile Fo	The state of the s	the second secon			
Printed/Typed Name: Waterhouse Signature:	WCh	1		Date: 10/21/15	
Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:				Date: / / / - / /	
10dd Brown	Day	& Br	_	10/21/15	
11. Discrepancy Indication space:					
12. Facility Owner or Operator: Certification of Receipt of Materials	00	/	(780)		
Printed/Typed Name: Signature:		Ance	11/1/	Date //0-2 (-/5	
11100 1 40000 4			-01	100115	

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Non-Hazardous Manifest: Waste Water or	Number:				
Generator's EPA ID# (if applicable):	man and	Waste ID Nun	nber:		A STATE OF THE STA
Generator's Name and Mailing Address:	1	Phone () + # 2171.90			
Chiraw IN Windson Ma	VT	P O #:		*	
Chiraw, Sc		P U #.	us	TH 02314	
Agent of Generator and Mailing Address:		Phone (8	43) 873-	8200	
Symmeritie, Sch	1 14	P Q #:	25,00		1
4. Transporter Company Name: Goodsell Transport SI Old Mt. Holly 2D	Phone ()			
Truck & Trailer License Number: Gas Cruk, Sc					
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:	N	lailing Addres	s:	Phone: (843) 797-3111	_
US Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov	ery	Fax: (843) 797-1884	19.00
Goose Creek, SC 29445	The state of the s	se Creek, SC 2			
7 Facility U.S. EPA ID#:					
Start Level: End Level:		Total Gallons		Tank Numb	er
9 LLC DOT Description	Con	tainar	Linit	Ougast	:14. /
8. U.S. DOT Description	No.	tainer Type	Unit	Quant	ity
a. Non-Hazardous, non-regulated waste water		VAC	GAZ	5000	
the state of the s	1	134	1 11	-4-X-1-4-3-4	
9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F	and labeled, and e laws of the S	d are in all resp tate of South C	ects in proper arolina. I furthe	condition for transport by er certify that the contents of	highway according
Printed/Typed Name: Signature: Signature:	Nex	1		Date: 10 /2	27/15
Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	5	, ,		Date:	
Todd Brown	Jan	1 b.		/6	122/15
11. Discrepancy Indication space:					
12. Facility Owner or Operator: Certification of Receipt of Materials	1				
Printed/Typed Name: Signature:	1			Date	27/18
White - Facility Yellow - Office	Pink	- Transpo	orter E	Blue - Generator	A STATE OF THE

2/7/90 12910

		5. 计技术主题	是是 停止压缩		
Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:		
Generator's EPA ID# (if applicable):		Waste ID Num	nber:		
2. Generator's Name and Mailing Address:		Phone ()	71-0-211	
Windcor MART		P O #:		T# 02314	
Chiraw, Sc			P	#2171.90	
Agent of Generator and Mailing Address:		Phone (8	43) 873	-8200	
Terry touron mental foria	3	PO#: Z	5	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
4. Transporter Company Name: Goodfill Transport 51 012 mt. Holly	20	Phone ()		
Truck & Trailer License Number: Goon Cruk, 5					
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:	N	lailing Addres	s:	Phone: (843) 797-31	11
US Water Recovery		Water Recov		Fax: (843) 797-188	4
511 Old Mt. Holly Rd. Goose Creek, SC 29445		Old Mt. Holly se Creek, SC 2			
7 Facility U.S. EPA ID#:					
Start Level: End Level:		Total Gallons:	74 148	Tank No	umber
8. U.S. DOT Description	Con	tainer	Unit	Qu	antity
	No.	Туре			
a. Non-Hazardous, non-regulated waste water		VAC	GAL	5000	
					· ·
and the second s	along the state	134	3	A Alban	· Comment
 Generator's Certification: I hereby declare that the contents of this cor above by proper shipping name and are classified, packed, marked ar to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Fo 	nd labeled, and laws of the S	d are in all resp tate of South Ca	ects in proper arolina. I furthe	condition for transport r certify that the conter	by highway according ats of this consignment
Printed/Typed Name: Signature:	M			Date:	0/22/15
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	Dans	40		Date:	10/22/16
11. Discrepancy Indication space:		1 01	Top Table Line		12210
12. Facility Owner or Operator: Certification of Receipt of Materials	- 11				1
Printed/Typed Name: Signature:	Mille	Dow		Date	16/20/10
White - Facility Vellow - Office	Pink	- Transpo	orter F	Blue - Generator	de the second

217/90 12921

Non-Hazardous Manifest: Waste Water or	Drums	Numb	er:	
Generator's EPA ID# (if applicable):		Waste ID Nun	mber:	
2. Generator's Name and Mailing Address:		Phone ()	
Wirdsor Mart		PO#:	6#	12/71.9(
Cheran, SC		1 0 11.	UST	# 02314
Agent of Generator and Mailing Address:		Phone (7	43) 873	-8200
Terry Environmental Ferrice Summirally, SC	PO#: 75			
4. Transporter Company Name: Goodsell Transport Phone ()				
Truck & Trailer License Number: Gook Chuk, S				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:	M	ailing Addres	ss:	Phone: (843) 797-3111
US Water Recovery		Water Recov		Fax: (843) 797-1884
511 Old Mt. Holly Rd. Goose Creek, SC 29445		Old Mt. Holly e Creek, SC 2		
	Goos	e Oreek, SO 2	.3440	
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons		Tank Number
8. U.S. DOT Description	Cont No.	ainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water		VAT	GAZ	57000
			711	
	Part of the	A A STAN		700
and a select the best of the		The state of the s	- N	
9. Generator's Certification: I hereby declare that the contents of this contabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Formula.	nd labeled, and e laws of the St	are in all responded are in al	pects in proper Carolina. I furthe	condition for transport by highway according er certify that the contents of this consignment
Printed/Typed Name: Signature:	SNA	*		Date: 10/23/15
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	Tool	1 8		Date: 10/23/15
11. Discrepancy Indication space:	1			
12. Facility Owner or Operator: Certification of Receipt of Materials		1		
Printed/Typed Name: Signature:	Well	he (2	Date / B/H
White Facility Vollow Office	Dink	- Trangno	autor I	Rlue - Generator

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Non-Hazardous Manifest: Waste Water or Drums Number:						
Generator's EPA ID# (if applicable):		Waste ID Num	nber:			
Generator's Name and Mailing Address:		Phone ()			
Windsor Mart		PO#:				
2/71.96		P U #.				
Agent of Generator and Mailing Address: Tarket Family of	\	Phone (843) 873-8200				
Telly Critical						
P.O. Box 25 SUMMERVILL SL 2	9484	PO#:	2171.9	C. Windsor Murt		
4. Transporter Company Name:	. 10	Phone ()			
Truck & Trailer License Number:	4					
5. Transporter U.S. EPA ID#:						
6. Facility Name and Site Address:	M	ailing Addres	9.	Phone: (843) 797-3111		
US Water Recovery	US	Water Recov	ery	Fax: (843) 797-1884		
511 Old Mt. Holly Rd. Goose Creek, SC 29445	The state of the s	e Creek, SC 2				
7 Facility U.S. EPA ID#:						
Start Level: End Level:	*	Total Gallons:		Tank Number		
		The second				
8. U.S. DOT Description	1200,000,000	ainer	Unit	Quantity		
	No.	Туре	/ 1	7		
a. Non-Hazardous, non-regulated waste water	101	VT	601	3000		
	de la company		Danie Mary			
				2001		
and the state of t	trees to and	1.11	Acres 1	alterity by the same form in the transfer		
9. Generator's Certification: I hereby declare that the contents of this co	nsignment are	not hazardous	by definition or	listing and are fully and accurately described		
above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment						
to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature:				the Designated Facility.		
are as represented by the description contained on the Waste Profile F				the Designated Facility.		
are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature:				the Designated Facility.		
are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:				the Designated Facility. Date: 10/26/15		
are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: 11. Discrepancy Indication space: 12. Facility Owner or Operator: Certification of Receipt of Materials				Date: 10/26/15 Date: 10/26/15		
are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: 11. Discrepancy Indication space:				the Designated Facility. Date: 10/26/15		

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	district of the contract of	- Selection of	not the total	
Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:	
Generator's Name and Mailing Address:		Phone ()	
Windsol Malt 2171		D O #.		
Cheraw SC		PO#:		
Agent of Generator and Mailing Address:		Phone ()	
Terry Environmental.	W.	P O #		
	1 14	PO#:	The state	
Transporter Company Name:		Phone ()	
Goodsell Transport				*
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:	M	ailing Addres	ss:	Phone: (843) 797-3111
US Water Recovery	US	Water Recov	very	Fax: (843) 797-1884
511 Old Mt. Holly Rd. Goose Creek, SC 29445		Old Mt. Holly e Creek, SC 2		
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons	and Capa Acces	Tank Number
		Total dallons		Tank Number
8. U.S. DOT Description		ainer	Unit	Quantity
	No.	Туре		
a. Non-Hazardous, non-regulated waste water	101	VT	691	5000
			. 3	
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		As the second		V.
9. Generator's Certification: I hereby declare that the contents of this cor	nsignment are r	not hazardous	by definition or	listing and are fully and accurately described
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the				
are as represented by the description contained on the Waste Profile Fo				
Printed/Typed Name: Brian Spillage Signature:			?	Date: 10/z7/15
Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	2 11			Date:
Todd Brown) orled	Bron	~	10-27-15
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials			1	
Printed/Typed Name: Signature:	M		1.	Date 18-27.8
White - Facility Vollow - Office	Dink	- Transpo	ortor E	Blue - Generator

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	STATE OF THE STATE	The second name of the last of	AND DESCRIPTION OF THE PERSON NAMED IN	
Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:	
2. Generator's Name and Mailing Address:		Phone ()	
		PO#:		
Cheran SC		ι Ο π.		
Agent of Generator and Mailing Address:		Phone ()	
Terry Environmental	1 K	PO#:	1	4 1 4
Transporter Company Name:		Phone ()	
Goodsell Transport				
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:		200		
6. Facility Name and Site Address:	М	ailing Addres	s:	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.		Water Recov Old Mt. Holly		Fax: (843) 797-1884
Goose Creek, SC 29445		e Creek, SC 2		
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Cont No.	ainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	601	5000
a. Neil Hazardose, Hell Tegalated Waste Water	101		041	3000
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	- 1	. %	Acres Assess	And have been a few to the second
and the second s	1. 1. 1	: %	Acres Server	
9. Generator's Certification: I hereby declare that the contents of this contents by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For	nd labeled, and laws of the St	not hazardous I are in all resp ate of South C	ects in proper arolina. I furthe	condition for transport by highway according r certify that the contents of this consignment
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2171-90

13020

Non-Hazardous Manifest: Waste Water or	Drums	Numb	er:			
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:			
2. Generator's Name and Mailing Address: Windsor Murt		Phone ()			
2171.96		P O #:				
3. Agent of Generator and Mailing Address:	imental	Phone (2	143) 873	- 8200		
PO BUR 25	29456	PO.#:	4	4 4 4		
4. Transporter Company Name:		Phone ()			
Truck & Trailer License Number:						
5. Transporter U.S. EPA ID#:						
6. Facility Name and Site Address:	N	lailing Addres	s:	Phone: (843) 797-3111		
US Water Recovery	US	Water Recov	ery	Fax: (843) 797-1884		
511 Old Mt. Holly Rd.		Old Mt. Holly		T ax. (040) 707 1004		
Goose Creek, SC 29445	Goos	se Creek, SC 2	9445			
7 Facility U.S. EPA ID#:						
Start Level: End Level:		Total Gallons		Tank Number		
8. U.S. DOT Description	Con	tainer	Unit	Quantity		
d. C.O. De l'Description	No.	Туре	Offic	Quartity		
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	5000		
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		34	7.16			
9. Generator's Certification: I hereby declare that the contents of this contents	nsignment are	not hazardous	by definition or	listing and are fully and accurately described		
above by proper shipping name and are classified, packed, marked a						
to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Fo				The state of the s		
Printed/Typed Name: Aska Kayash Signature:	MI	6		Date: 10/28/15		
10. Transporter Acknowledgement of Receipt of Materials		1.1				
Printed/Typed Name: Todd Brown Signature:	Dady	1 Bu		Date: 10/28/15		
11. Discrepancy Indication space:	(
12. Facility Owner or Operator: Certification of Receipt of Materials	11		N'S ME			
Printed/Typed Name: Signature:	tall	M		Date (()		
White - Facility Yellow - Office	Pink	- Transpo	orter E	Blue - Generator		

2171.90 12912

Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Num	nber:	
2. Generator's Name and Mailing Address: Convey Cup	board	Phone ()	
2. Generator's Name and Mailing Address: Conver Cup 820 ChesTafie	eld Hwy	PO#:		
Cheram co		1 0		
3. Agent of Generator and Mailing Address: Tenny Env		Phone ()	
summerelle	1 1	PO#;	1 - 1	
4. Transporter Company Name: Food Sell Service 511 old M. Hall	5 rd	Phone ()	~
Truck & Trailer License Number: Goose Greek 5				
5. Transporter U.S. EPA ID#:	- (197		+	
6. Facility Name and Site Address:	M	ailing Address	3.	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov	ery	Fax: (843) 797-1884
Goose Creek, SC 29445	The state of the s	e Creek, SC 2		
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description		ainer	Unit	Quantity
	No.	Type		
a. Non-Hazardous, non-regulated waste water	103	VT	Ga/	3300
	Page 15 ACT		nella e	
A CONTRACTOR OF THE STATE OF TH	100	4		and the second s
and the second of the second of the second	in the Assistance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A serie to the	alaba ta la charter the la ta ta com
		4 4 4 5 5		
9. Generator's Certification: I hereby declare that the contents of this contabove by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For	nd labeled, and laws of the St	are in all resp ate of South Ca	ects in proper arolina. I furthe	condition for transport by highway according r certify that the contents of this consignment
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above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	nd labeled, and laws of the St	are in all resp ate of South Ca	ects in proper arolina. I furthe	condition for transport by highway according r certify that the contents of this consignment the Designated Facility.
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials	nd labeled, and laws of the St	are in all resp ate of South Ca	ects in proper arolina. I furthe	condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date: 19/28/15
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: 11. Discrepancy Indication space: 12. Facility Owner or Operator: Certification of Receipt of Materials	nd labeled, and laws of the St	are in all resp ate of South Ca	ects in proper arolina. I furthe	condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date: 19/28/15 Date: 19/28/15
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217/90 13169

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Non-Hazardous Manifest: Waste Water or	Drums	Numb	er:		
Generator's EPA ID# (if applicable):		Waste ID Nur	mber:		
2. Generator's Name and Mailing Address:		Phone ()		
Windsor Murt		PO#:			
2171.96		1 0 11.			
Agent of Generator and Mailing Address:		Phone (4	(43) 873	-4200	
Terry Environmental Po Box 25 Summerville, SL 29	484	PO#:			
4. Transporter Company Name: Goodsell Service 511 old MT H		Phone ()		
Truck & Trailer License Number: Mr Goose Cr - cK	5 < 29	445		4	
5. Transporter U.S. EPA ID#:		1000			
6. Facility Name and Site Address:	M	ailing Addres	s:	Phone: (843) 797-3111	
US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 511	Water Recov Old Mt. Holly e Creek, SC 2	rery Rd.	Fax: (843) 797-1884	
7 Facility U.S. EPA ID#:	eq.				
Start Level: End Level:		Total Gallons		Tank Number	
8. U.S. DOT Description	Cont	ainer Type	Unit	Quantity	
a. Non-Hazardous, non-regulated waste water	163	LT	Gal.	5000	
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and the second of the second second the form	400 1 100 1	constitute for	Pare Diffe	didentify thereby being to be a	
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.					
Printed/Typed Name: Adva Knight Signature:	12/1	1		Date: 10/29/15	
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Date: 10/29/15					
11. Discrepancy Indication space:					
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature:		Dar	ilw	Date	
White - Facility Yellow - Office	Pink	- Transpo	rter E	Blue - Generator	

2/7/90 13022

Non-Hazardous Manifest: Waste Water or	Drums	Numb	er:	
Generator's EPA ID# (if applicable):		Waste ID Nur	nber:	
Generator's Name and Mailing Address:		Phone ()	
Windsor Mut		P O #:		
2171.96				
3. Agent of Generator and Mailing Address:	mental	Phone (&	43) 873-	8200
0 0 1 3 -	Z WEY	PO#:		4-4-2
Summervally SC	21101		唐子 - 7	A STATE OF THE STA
4. Transporter Company Name: Goodsel Serv 511 old MT H	ices ,	Phone ()	
Truck & Trailer License Number: Fase Greft 5. Transporter U.S. EPA ID#:	50 1	29445		*
o. Hatepoter cic. El Albin.		1000	in the second second	
6. Facility Name and Site Address: US Water Recovery		lailing Addres Water Recov		Phone: (843) 797-3111
511 Old Mt. Holly Rd.	511	Old Mt. Holly	Rd.	Fax: (843) 797-1884
Goose Creek, SC 29445	Goos	e Creek, SC 2	9445	
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons		Tank Number
8. U.S. DOT Description	Cont	tainer	Unit	Quantity
* •	No.	Туре		
a. Non-Hazardous, non-regulated waste water	103	レブ	aal	3300
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and the second of the second s	- 12 2 1	2016	Apple	alian tara tara tara Penalah Indonesia
9. Generator's Certification: I hereby declare that the contents of this contents of the conte				
above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the	e laws of the St	ate of South C	arolina. I furthe	r certify that the contents of this consignment
are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature:	orm previously	submitted to ar	nd approved by	the Designated Facility. Date: 10/29/6
10. Transporter Acknowledgement of Receipt of Materials	mi			10/2/10
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Date: Date:				
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials				1 /
Printed/Typed Name: Daniel Kinstyn Signature:	7			Date 10/29/15
White - Facility Yellow - Office	Pink	- Transpo	orter E	Blue - Generator

217/290 13023

Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:		
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:		
2. Generator's Name and Mailing Address:		Phone () 4 4 6 1		
Windsur murt					
Grae cheral sc					
Agent of Generator and Mailing Address:		Phone ()		
Terry En Services		PO#: 7	5** * *	79 (4 × 1) 4 × 1	
4. Transporter Company Name:		Phone ()		
Do Dato					
	29445	-			
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:	N	ailing Addres	s:	Phone: (843) 797-3111	
US Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov	ery	Fax: (843) 797-1884	
Goose Creek, SC 29445	The same of the sa	e Creek, SC 2			
7 Facility U.S. EPA ID#:					
Start Level: End Level:	Sea of the	Total Gallons		Tank Number	
8. U.S. DOT Description	No.	ainer Type	Unit	Quantity	
a. Non-Hazardous, non-regulated waste water	103	1-7	1		
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			1-67-4-1-7	AND THE RESIDENCE OF THE PERSON OF THE PERSO	
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.					
Printed/Typed Name: Signature:	92/6	16/		Date: 1/2/ 34 / (63	
10. Transporter Acknowledgement of Receipt of Materials	1	- MILL		101 70 113	
Printed/Typed Name: Signature:	1			Date: 10/30/15	
11. Discrepancy Indication space:		0		1.73	
12. Facility Owner or Operator: Certification of Receipt of Materials				1 1	
Printed/Typed Name: Once Kignature:	A	7		Date 1930/15	
White - Facility Yellow - Office	Pink	- Transpo	orter E	Blue - Generator	

217/90 13024

Non Honordous Monifost Wests Water or During Alexandras					
Non-Hazardous Manifest: Waste Water or Drums Number:					
Generator's EPA ID# (if applicable):	Waste ID Nur	nber:			
2. Generator's Name and Mailing Address:	2. Generator's Name and Mailing Address:				
820 Chesterfiel	ld Hwy	PO#:			
, Cheran SC					
Agent of Generator and Mailing Address:	v= , v=	Phone ()		
Tenny TENY		P.O #:			
Summerville	150	-F O #	** **	The second to th	
4. Transporter Company Name: Goodsell Services	on.	Phone ()		
4. Transporter Company Name: Foodsell Services 511 old MT Hall			,		
Truck & Trailer License Number: 6-cose (1+4K 5C	2944	15			
5. Transporter U.S. EPA ID#:	5				
6. Facility Name and Site Address:	M	lailing Addres		Phone: (843) 797-3111	
US Water Recovery	US	Water Recov	rery	Fax: (843) 797-1884	
511 Old Mt. Holly Rd. Goose Creek, SC 29445		Old Mt. Holly se Creek, SC 2			
7 Facility U.S. EPA ID#:					
Start Level: End Level:		Total Gallons		Tank Number	
and the second s		1.19			
8. U.S. DOT Description	Cont	tainer	Unit	Quantity	
The state of the s	Cont No.	tainer Type	Unit	Quantity	
The state of the s			Unit	Quantity 2000	
	No.				
a. Non-Hazardous, non-regulated waste water	No.				
a. Non-Hazardous, non-regulated waste water	No.				
a. Non-Hazardous, non-regulated waste water	No.			2000	
a. Non-Hazardous, non-regulated waste water	No.			2000	
a. Non-Hazardous, non-regulated waste water	No. 103	Type	aul	2000	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this core	No.	Type Type hot hazardous	by definition or	Zooo listing and are fully and accurately described	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this corabove by proper shipping name and are classified, packed, marked are to applicable international and national government regulations and the	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according recrtify that the contents of this consignment	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this corabove by proper shipping name and are classifled, packed, marked and are classifled.	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according recrtify that the contents of this consignment	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this conabove by proper shipping name and are classified, packed, marked are to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Formatter	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility.	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this conabove by proper shipping name and are classified, packed, marked are to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility.	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this conabove by proper shipping name and are classified, packed, marked are to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date:	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this conabove by proper shipping name and are classified, packed, marked are to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date:	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this conabove by proper shipping name and are classified, packed, marked are to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: 11. Discrepancy Indication space: 12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature:	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date:	
a. Non-Hazardous, non-regulated waste water 9. Generator's Certification: I hereby declare that the contents of this conabove by proper shipping name and are classified, packed, marked are to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: 11. Discrepancy Indication space:	No. 103 Insignment are in a labeled, and a laws of the St	Type Type not hazardous dare in all respectate of South C	by definition or ects in proper arolina. I furthe	listing and are fully and accurately described condition for transport by highway according r certify that the contents of this consignment the Designated Facility. Date: Date: Date:	

2171.90 13171

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9C

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		
1	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address,	X		
4	telephone number, and certification number provided?	Λ		
5	Is the name, address, telephone number, and certification number of the well			X
3	driller that installed borings/monitoring wells provided?			Λ
6	Is the name, address, telephone number, and certification number of the certified			X
0	laboratory(ies) performing analytical analyses provided?			A
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 Sect 3		
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
20	Have the groundwater sampling dates and groundwater measurements been			
21	provided?			X
22	Has the purging methodology been detailed?			X
23	Has the volume of water purged from each well been provided along with			X
25	measurements to verify that purging is complete?			A
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
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		<u> </u>
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

Item #	Item	Yes	No	N/A
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) - Gauging Logs Only	X		
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.

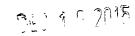


Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

UST

MR CHARLES JACKSON JACKSON OIL COMPANY INC PO BOX 968 CHESTERFIELD SC 29520-0968



Re: **AFVR Directive**

Windsor Mart, 820 Chesterfield Highway, Cheraw, SC UST Permit #02314; CA #51642 Release reported December 6, 1991 AFVR Report received November 18, 2015 Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Terry Environmental Services, Inc. as your contractor. The next appropriate scope of work at the site is to continue aggressive fluid and vapor recovery (AFVR) to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). The AFVR events must be conducted in accordance with the current revision of the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at https://www.scdhec.gov/environment/lw/ust/ReleaseAssessmentClean-up/QualityAssurance/.

Cost Agreement #51642 has been approved in the amount shown on the enclosed cost agreement form for two 96-hour AFVR events to be conducted at the site back to back. The first AFVR event should be conducted on MW-1, MW-2R and RW-1. The second AFVR event should be conducted on MW-4 and RW-2. The stingers shall be lowered at six inch intervals starting at the water table interface to the estimated historical low water table elevation for each well. Stingers should be placed as to maximize FP and/or vapor recovery. Approximately 30 days after conclusion of the AFVR events, all wells historically containing free product and recovery wells should be gauged. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

The Agency grants pre-approval for transportation of up to 70,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference **UST Permit #02314**. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash, Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc)

Technical File (w/ enc)

Approved Cost Agreement 51642

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

THRASHAM PO Number

Task / Description Categories Item Description		Qty / Pct	Unit Price	<u>Amount</u>
04 MOB/DEMOB				
1	B1 PERSONNEL	1 0000	423.00	423.00
10 SAMPLE COLLECTION				
	E1 GAUGE WELL ONLY	7 0000	7 00	49.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0 1200	58,561 75	7,027 41
23 EFR				
	A4 96 HOUR EVENT	2 0000	12,567 50	25,135 00
	C4 OFF GAS TREATMENT 96 HOUR	2.0000	780 00	1,560 00
	D SITE RECONNAISSANCE	1.0000	203.25	203 25
	F1 EFFLUENT DISPOSAL	70,000 0000	0.44	30,800 00
1	G AFVR EQUIPMENT MOB	1.0000	391 50	391.50
		Total Amo	unt	65,589 16

December 18, 2015 Page 1 of 1 suprcait.rdf Rev: 1.15

Document Receipt Information

Hard Copy	CD		Email
Date Received	3-3-16		
Permit Number	62314		
Project Manager	Ashla	eigh	Mach
Name of Contractor	TES	0	
UST Certification Num	ber		
Docket Number		_	184ch
Scanned			
	AFUR /	Saugi	n S

AGGRESSIVE FLUID VAPOR RECOVERY (AFVR) AND GAUGING EVENTS REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #51642

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9D

KELLY K. CONE, PG Vice President, Assessment Services

KK Con

JASON A. TERRY, PG President

FEBRUARY 2016



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company (Contact: Charles Jackson)

Address: 755 South 4th Street, Hartsville, SC 29550

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 Certification: UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Not Applicable

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	

No _ XXXX
n/a
n/a
n/a



7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1.000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. During this scope of work, depth to groundwater was measured between 11 and 16 feet below top of casing in the recovery and influence wells gauged prior to the start of the events.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.

E. GROUNDWATER DATA

Not Applicable. No groundwater samples were collected during this scope of work.



F. AFVR INFORMATION

1. Scope of Work

As directed by SCDHEC, two (2) consecutive 96-hour AFVR Event were performed; between February 1, 2016 and February 5, 2016 event one was conducted on monitoring/recovery wells MW-1, MW-2R and RW-1; between February 8, 2016 and February 12, 2016 event two was conducted on monitoring/recovery wells MW-4 and RW-2. TERRY Exploration Services, LLC performed the AFVR events under the supervision of TERRY Environmental Services, Inc.

2. AFVR Emissions Table

AFVR Emissions Table (Event 1) - Attached

AFVR Emissions Table (Event 2) – Attached

Extraction Well Stinger Depth Table (Event 1) - Attached

Extraction Well Stinger Depth Table (Event 2) – Attached

3. Vacuum Data Table

Vacuum Data Table (Event 1) - Attached

Vacuum Data Table (Event 2) - Attached

4. Volume of Water Recovered

38,391 gallons of fluid were recovered during the 96-hour event conducted February 1, 2016 through February 5, 2016. 33,913 gallons of fluid were recovered during the 96-hour event conducted February 8, 2016 through February 12, 2016. A total of 72,304 gallons of fluid were recovered during the two events. The SCDHEC Project Manager and TERRY personnel expected the high volume of recovery based on previous events on site.

5. Volume of Product Recovered

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

6. Mass of Petroleum Recovered as Vapor

7.71 pounds of volatile organic vapors (approximate equivalent of 1.23 gallons of gasoline) were recovered during the course of the 96-hour event conducted February 1, 2016 through February 5, 2016. 28.97 pounds of volatile organic vapors (approximate equivalent of 4.64 gallons of gasoline) were recovered during the course of the

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 Site Name: Wind SCDHEC Site ID #: Well ID #: MW dsor Mar

Total Pounds of Carbon Recovered as Emissions:
Total Pounds of Gasoline Vapor Recovered as Emissions:
Total Gallons of Gasoline Recovered as Emissions:
(This Number Represents the Gallons Recovered via Vapors, Not Total Li

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 Average Depth to Groundwater: 11-15 ft. Describe Soil in Saturated Zone: Sandy Silt Vacuum Contractor: TERRY Exploration Services, LLC 282 CFM @ 25" Hg Blower Specification of the Vacuum Truck (CFM @ Hg) BY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd) DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd) Flow EMISSION CALCULATION

28.97 4.64

Total Pounds of Carbon Recovered as Emissions: 2
Total Pounds of Gasoline Vapor Recovered as Emissions: 2
Total Gallons of Gasoline Recovered as Emissions: 4
(This Number Represents the Gallons Recovered via Vapors, Not Total Liq

AFVR Definitions and Equations

Qstd = (60 sec/min) (1- Bws) (velocity) (Pipe ID sq.ft.) [(528 oR / (Temp. + 460)] (Listed As Flow Above)

 $Bws = (B_{wsw} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)

Cc = Ccm (62.43 E - 9 lb-m³/mg-ft³) PMRg = (PMRc) (Mg/Mcg)

Bgs = below top of casing

 $Bws = (B_{WSW} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole } dry \text{ air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

Qstd = (60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm³, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

 $K_3 = 24.07 \text{ dsm}^3/10^6 \text{ mg-mole}$, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K₃)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE (EVENT 1) WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 FEBRUARY 1-5, 2016

Well # MW-1		Well#	MW-2R	Well #	RW-1		
Elapsed	Stinger Depth	Elapsed Stinger Depth		Elapsed	Stinger Depth		
Time	(ft)*	Time	(ft)*	Time	(ft)*		
0	13.5	0	13.5	0	13.5		
0.5	14.0	0.5	14.0	0.5	14.0		
1	14.5	1	14.5	1	14.5		
1.5	15.0	1.5	15.0	1.5	15.0		
2	15.5	2	15.5	2	15.5		
2.5	16.0	2.5	16.0	2.5	16.0		
3	16.5	3	16.5	3	16.5		
3.5	17.0	3.5	17.0	3.5	17.0		
4	17.5	4	17.5	4	17.5		
4.5	18.0	4.5	18.0	4.5	18.0		
5	18.5	5	18.5	5	18.5		
5.5	19.0	5.5	19.0	5.5	19.0		
6	19.0	6	19.0	6	19.0		
6.5	19.0	6.5	19.0	6.5	19.0		
7	19.0	7	19.0	7	19.0		
7.5	19.0	7.5	19.0	7.5	19.0		
8	19.0	8	19.0	8	19.0		
9	19.0	9	19.0	9	19.0		
10	19.0	10	19.0	10	19.0		
10.5	19.0	10.5	19.0	10.5	19.0		
18.5	19.0	18.5	19.0	18.5	19.0		
19.5	19.0	19.5	19.0	19.5	19.0		
20.5	19.0	20.5	19.0	20.5	19.0		
21.5	19.0	21.5	19.0	21.5	19.0		
22.5	19.0	22.5	19.0	22.5	19.0		
23.5	18.0	23.5	18.0	23.5	18.0		
25.5	18.0	25.5	18.0	25.5	18.0		
27.5	18.0	27.5	18.0	27.5	18.0		
29.5	18.0	29.5	18.0	29.5	18.0		
31.5	18.0	31.5	18.0	31.5	18.0		
33.5	19.0	33.5	19.0	33.5	19.0		
34.5	19.0	34.5	19.0	34.5	19.0		
42.5	19.0	42.5	19.0	42.5	19.0		
44.5	18.0	44.5	18.0	44.5	18.0		
46.5	18.0	46.5	18.0	46.5	18.0		
48.5	18.0	48.5	18.0	48.5	18.0		
50.5	18.0	50.5	18.0	50.5	18.0		
52.5	18.0	52.5	18.0	52.5	18.0		
54.5	18.0	54.5	18.0	54.5	18.0		
56.5	18.0	56.5	18.0	56.5	18.0		
58.5	19.0	58.5	19.0	58.5	19.0		
66.5	19.0	66.5	19.0	66.5	19.0		
68.5	18.0	68.5	18.0	68.5	18.0		
70.5	18.0	70.5	18.0	70.5	18.0		
72.5	18.0	72.5	18.0	72.5	18.0		
74.5	18.0	74.5	18.0	74.5	18.0		
76.5	18.0	76.5	18.0	76.5	18.0		
78.5	18.0	78.5	18.0	78.5	18.0		
80.5	19.0	80.5	19.0	80.5	19.0		
82.5	19.0	82.5	19.0	82.5	19.0		
90.5	19.0	90.5	19.0	90.5	19.0		
92.5	18.0	92.5	18.0	92.5	18.0		
94.5	18.0	94.5	18.0	94.5	18.0		
96	19.0	96	19.0	96	19.0		
*Management male	tive to the top of	the well engine			•		

^{*}Measured relative to the top of the well casing.

SECTION F-2B

EXTRACTION WELL STINGER DEPTH TABLE (EVENT 2) WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 FEBRUARY 8-12, 2016

XX7 11 //		Well # RW-2					
Well # Elapsed Time	MW-4 Stinger Depth (ft)*	Well # Elapsed Time	Stinger Depth (ft)*				
0	11.0	0	11.0				
0.5	11.5	0.5	11.5				
1	12.0	1	12.0				
1.5	12.5	1.5	12.5				
2	13.0	2	13.0				
2.5	13.5	2.5	13.5				
3	14.0	3	14.0				
3.5	14.5	3.5	14.5				
4	15.0	4	15.0				
4.5	15.5	4.5	15.5				
5	16.0	5	16.0				
5.5	16.5	5.5	16.5				
6	17.0	6	17.0				
6.5	17.5	6.5	17.5				
7	18.0	7	18.0				
7.5	18.5	7.5	18.5				
8	20.0	8	20.0				
9	20.0	9	20.0				
10	20.0	10	20.0				
11	20.0	11	20.0				
19	20.0	19	20.0				
20	20.0	20	20.0				
21	20.0	21	20.0				
22	20.0	22	20.0				
23	20.0	23	20.0				
24	20.0	24	20.0				
26	20.0	26	20.0				
28	20.0	28	20.0				
30	20.0	30	20.0				
32	20.0	32	20.0				
34	20.0	34	20.0				
35	20.0	35	20.0				
43	20.0	43	20.0				
45	20.0	45	20.0				
47 49	20.0	47 49	20.0				
51	20.0 19.0	51	19.0				
53 55	19.0 19.0	53 55	19.0 19.0				
55 57	20.0	57	20.0				
59	20.0	59	20.0				
67	19.0	67	19.0				
69	19.0	69	19.0				
71	19.0	71	19.0				
73	20.0	73	20.0				
75	20.0	75	20.0				
77	20.0	77	20.0				
79	20.0	79	20.0				
81	20.0	81	20.0				
83	20.0	83	20.0				
91	20.0	91	20.0				
93	20.0	93	20.0				
95	20.0	95	20.0				
96	20.0	96	20.0				
, -	the top of the well casing.		20,0				

^{*}Measured relative to the top of the well casing.

SECTION F-3 VACUUM DATA TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 FEBRUARY 1-5, 2016

FEBRUARY 1-5, 2016										
Well #	MW-4	Well #	MW-8	Well #	MW-15					
Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)					
0	0.25	0		0						
			0.25		1.00 1.25					
0.5	0.25	0.5	0.25	0.5	1.25					
1.5	0.50 0.50	1.5	0.50 0.50	1.5	1.50					
2		2	0.50	2	1.50					
2.5	0.50 0.50	2.5	0.50	2.5	1.50					
3	0.50	3	0.50	3	1.50					
3.5	0.50	3.5	0.50	3.5	1.50					
4	0.50	4	0.50	3.3	1.50					
4.5	0.50	4.5	0.50	4.5	1.50					
5	0.50	5	0.50	5	1.50					
5.5	0.50	5.5	0.50	5.5	1.50					
6	0.50	6	0.50	6	1.50					
6.5	0.50	6.5	0.50	6.5	1.50					
7	0.50	7	0.50	7	1.50					
7.5	0.50	7.5	0.50	7.5	1.50					
8	0.50	8	0.50	8	1.50					
9	0.50	9	0.50	9	1.50					
10	0.50	10	0.50	10	1.50					
10.5	0.50	10.5	0.50	10.5	1.50					
18.5	0.50	18.5	0.50	18.5	1.50					
19.5	0.50	19.5	0.50	19.5	1.50					
20.5	0.50	20.5	0.50	20.5	1.50					
21.5	0.50	21.5	0.50	21.5	1.50					
22.5	0.50	22.5	0.50	22.5	1.50					
23.5	0.50	23.5	0.50	23.5	1.50					
25.5	0.50	25.5	0.50	25.5	1.50					
27.5	0.50	27.5	0.50	27.5	1.50					
29.5	0.50	29.5	0.50	29.5	1.50					
31.5 33.5	0.50 0.50	31.5 33.5	0.50 0.50	31.5 33.5	1.50 1.50					
34.5	0.50	34.5	0.50	34.5	1.50					
42.5	0.50	42.5	0.50	42.5	1.50					
44.5	0.50	44.5	0.50	44.5	1.50					
46.5	0.50	46.5	0.50	46.5	1.50					
48.5	0.50	48.5	0.50	48.5	1.50					
50.5	0.50	50.5	0.50	50.5	1.50					
52.5	0.50	52.5	0.50	52.5	1.50					
54.5	0.50	54.5	0.50	54.5	1.50					
56.5	0.50	56.5	0.50	56.5	1.50					
58.5	0.50	58.5	0.50	58.5	1.50					
66.5	0.50	66.5	0.50	66.5	1.50					
68.5	0.50	68.5	0.50	68.5	1.50					
70.5	0.50	70.5	0.50	70.5	1.50					
72.5	0.50	72.5	0.50	72.5	1.50					
74.5	0.50	74.5	0.50	74.5	1.50					
76.5	0.50	76.5	0.50	76.5	1.50					
78.5	0.50	78.5	0.50	78.5	1.50					
80.5	0.50	80.5	0.50	80.5	1.50					
82.5	0.50	82.5	0.50	82.5	1.50					
90.5	0.50	90.5	0.50	90.5	1.50					
92.5	0.50	92.5 94.5	0.50 0.50	92.5	1.50 1.50					
94.5 96	0.50 0.50	94.5	0.50	94.5 96	1.50					
90	0.50	90	0.50	90	1.50					

SECTION F-3 VACUUM DATA TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 FEBRUARY 8-12, 2016

337-11 #	M337.1		1 0-12, 2010	XX7-11 #	MW 12		
Well #	MW-1	Well #	MW-12	Well # MW-13			
Elapsed	Vacuum (in	Elapsed	Vacuum (in	Elapsed Vacuum			
Time	H2O)	Time	H2O)	Time	H2O)		
0	0.20	0	0.0	0	0.0		
0.5	0.26	0.5	0.0	0.5	0.0		
1	0.26	1	0.0	1	0.0		
1.5	0.26	1.5	0.0	1.5	0.0		
2	0.26	2	0.0	2	0.0		
2.5	0.26	2.5	0.0	2.5	0.0		
3	0.26	3	0.0	3	0.0		
3.5	0.26	3.5	0.0	3.5	0.0		
4	0.26	4	0.0	4	0.0		
4.5	0.26	4.5	0.0	4.5	0.0		
5	0.26	5	0.0	5	0.0		
5.5	0.26	5.5	0.0	5.5	0.0		
6	0.26	6	0.0	6	0.0		
6.5	0.26	6.5	0.0	6.5	0.0		
7	0.26	7	0.0	7	0.0		
7.5	0.26	7.5	0.0	7.5	0.0		
8	0.26	8	0.0	8	0.0		
9	0.26	9	0.0	9	0.0		
10	0.26	10	0.0	10	0.0		
11	0.26	11	0.0	11	0.0		
19	0.26	19	0.0	19	0.0		
20	0.26	20	0.0	20	0.0		
21	0.26	21	0.0	21	0.0		
22	0.26	22	0.0	22	0.0		
23	0.26	23	0.0	23	0.0		
24	0.26	24	0.0	24	0.0		
26	0.26	26	0.0	26	0.0		
28	0.26	28	0.0	28	0.0		
30	0.26	30	0.0	30	0.0		
32	0.26	32	0.0	32	0.0		
34	0.26	34	0.0	34	0.0		
35	0.26	35	0.0	35	0.0		
43	0.26	43	0.0	43	0.0		
45	0.26	45	0.0	45	0.0		
47	0.26	47	0.0	47	0.0		
49	0.26	49	0.0	49	0.0		
51	0.26	51	0.0	51	0.0		
53	0.26	53	0.0	53	0.0		
55	0.26	55	0.0	55	0.0		
57	0.26	57	0.0	57	0.0		
59	0.26	59	0.0	59	0.0		
67	0.26	67	0.0	67	0.0		
69	0.26	69	0.0	69	0.0		
71	0.26	71	0.0	71	0.0		
73	0.26	73	0.0	73	0.0		
75	0.26	75	0.0	75	0.0		
77	0.26	77	0.0	77	0.0		
79	0.26	79	0.0	79	0.0		
81	0.26	81	0.0	81	0.0		
83	0.26	83	0.0	83	0.0		
91	0.26	91	0.0	91	0.0		
93	0.26	93	0.0	93	0.0		
95	0.26	95	0.0	95	0.0		
96	0.26	96	0.0	96	0.0		
	-				-		



96-hour event conducted February 8, 2016 through February 12, 2016. A total of 36.68 pounds of gasoline vapors (approximate equivalent of 5.87 gallons of gasoline) were recovered as emissions during the two events. Off-gas treatment was provided during the events as directed by the SCDHEC Project Manager.

7. Free Product Thickness Table

Free Product Thickness Table (Event 1) – Attached

Free Product Thickness Table (Event 2) - Attached

Free Product Thickness Table (Gauging) – Attached

8. AFVR Event Map

Figure F-8 AFVR Map (Event 1) – Attached

Figure F-8 AFVR Map (Event 2) - Attached

9. Recovery Water Disposal

The disposal manifests for the recovery water generated during the February 1-5, 2016 and February 8-12, 2016 AFVR Events are included in Appendix G.

SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 FEBRUARY 1-5, 2016

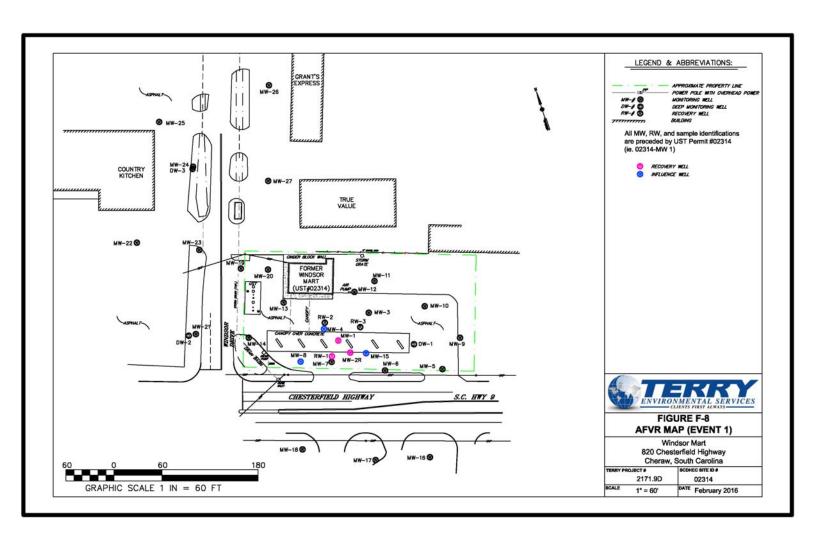
FEDROAK1 1-5, 2010										
Well#	-	Depth to Product	Depth to Water	Product Thickness						
MW-1	Initial	13.15	15.28	2.13						
IVI VV - I	Final	13.42	13.69	0.27						
MW-2R	Initial	13.59	13.90	0.31						
IVI VV -2IX	Final	14.02	14.03	0.01						
RW-1	Initial	13.37	14.98	1.61						
K VV - 1	Final	13.95	14.64	0.69						
MW-4	Initial	12.33	15.35	3.02						
IVI VV -4	Final	13.97	13.98	0.01						
MW-8	Initial	n/a	13.79	n/a						
IVI VV - 0	Final	n/a	14.40	n/a						
MW-15	Initial	n/a	13.58	n/a						
WW-13	Final	n/a	14.73	n/a						

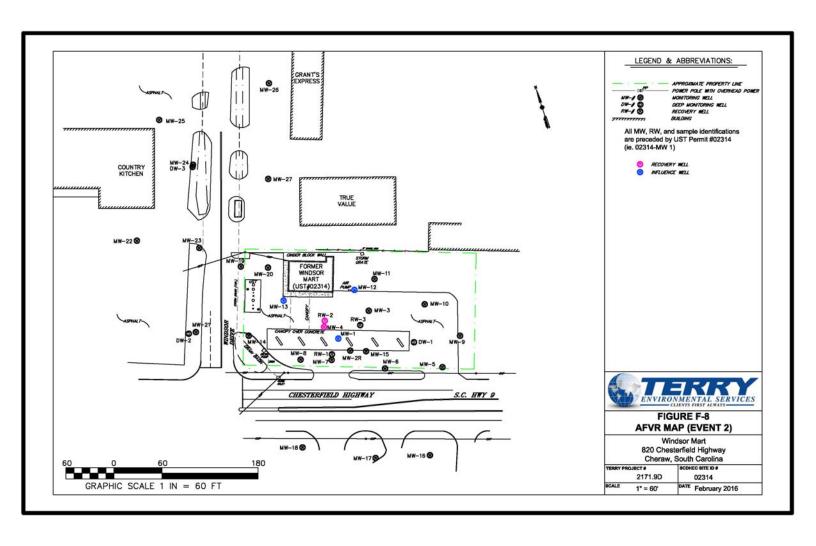
SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 FEBRUARY 8-12, 2016

Well #		Depth to Product	Depth to Water	Product Thickness
MW-4	Initial	11.83	14.58	2.75
IVI VV -4	Final	n/a	13.50	n/a
RW-2	Initial	10.78	12.38	1.60
IX VV - 2	Final	n/a	12.90	n/a
MW-1	Initial	n/a	12.68	n/a
1V1 VV - 1	Final	n/a	13.41	n/a
MW-12	Initial	n/a	11.55	n/a
IVI VV -12	Final	n/a	12.26	n/a
MW-13	Initial	n/a	11.70	n/a
IVI VV -13	Final	n/a	12.46	n/a

SECTION F-7 FREE PRODUCT THICKNESS TABLE (GAUGING) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 FEBRUARY 26, 2016

Well #	Depth to Product	Depth to Water	Product Thickness							
MW-1	n/a	12.62	n/a							
MW-2R	n/a	12.67	n/a							
MW-3	n/a	10.16	n/a							
MW-4	11.97	12.02	0.05							
MW-13	n/a	12.59	n/a							
RW-1	12.66	13.01	0.35							
RW-2	n/a	12.07	n/a							







G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, two 96-hour AFVR events were performed at the subject site. Prior to the February 1-5, 2016 event, free-phase product was measured in MW-1 (2.13 feet), MW-2R (0.31 feet), MW-4 (3.02 feet), and RW-1 (1.61 feet). Upon completion of the event, free-phase product was measured in MW-1 (0.27 feet), MW-2R (0.01 feet), MW-4 (0.01 feet), and RW-1 (0.69 feet). Prior to the February 8-12, 2016 event, free-phase product was measured in MW-4 (2.75 feet) and RW-2 (1.60 feet). Upon completion of the event, no free-phase product was measured. A total of 36.68 pounds of gasoline vapors (approximate equivalent of 5.87 gallons of gasoline) were recovered as emissions during the events.

On February 26, 2016 approximately fifteen (15) days after the completion of the second AFVR Event, a gauging event was performed on MW-1, MW-2R, MW-3, MW-4, MW-13, RW-1, and RW-2 to obtain current data. Free-phase product was measured MW-4 (0.05 feet) and RW-1 (0.35 feet). Depth to groundwater was measured between 10 and 14 feet below the top of casing. The Gauging Logs are provided in Appendix B.

The AFVR event was successful at recovering contaminant mass and dewatering the source area. As such, it is recommended to conduct two additional 96-hour AFVR events on the monitoring/recovery well network in the source area.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Potentiometric Data - Not Applicable

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Not Applicable

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

4. Site Potentiometric Maps

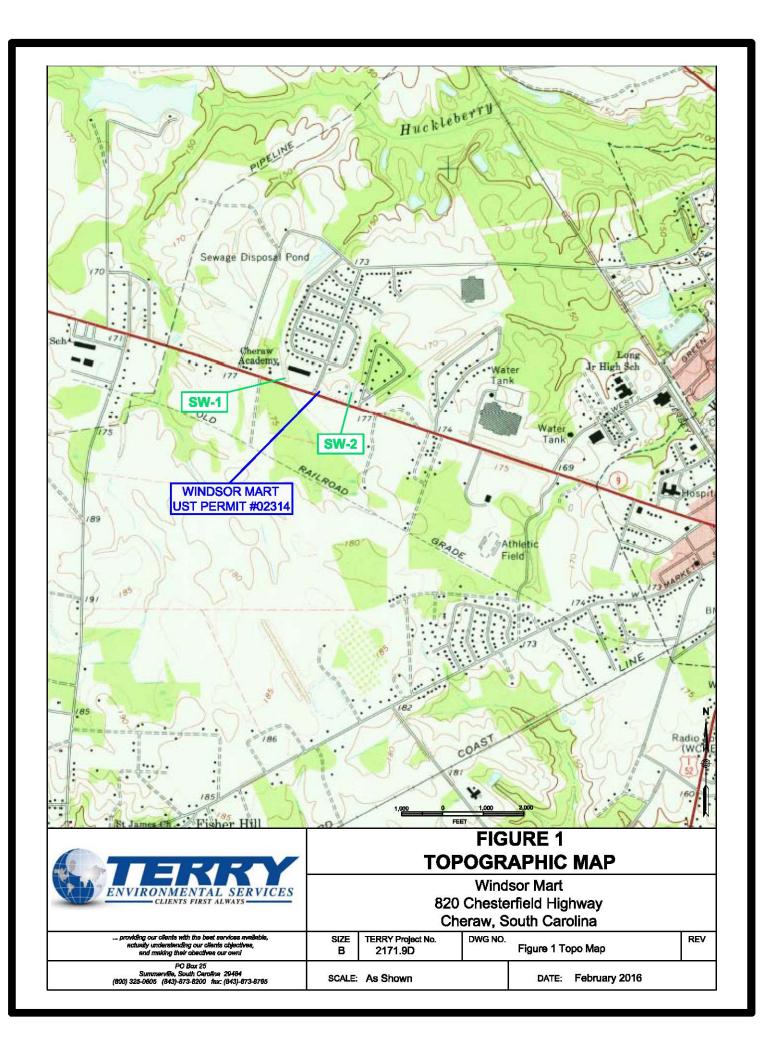
Figure 5 Site Potentiometric Map – Not Applicable

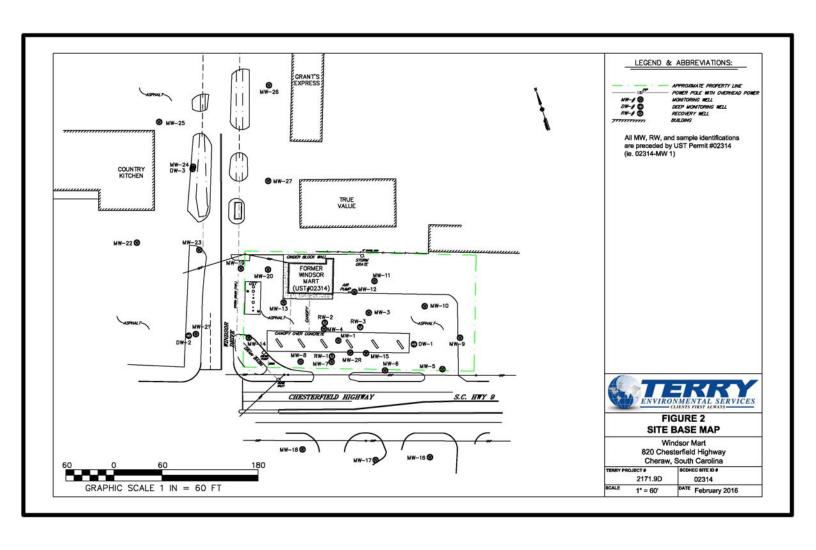
5. Geologic Cross Sections

Figure 6 Geologic Cross Sections - Not Applicable

6. Predicted Migration and Attenuation of CoCs

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable







K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifest
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

TER	RY	En	VİFONN S FIRST ALWA	iental ,	Services	<u>S</u>				\$		P.O. Box 2: lle, SC 29484 300-325-060
	Site Spe	ecific l	nformation	n			M	lonitoring	Well Infor	matio		
Terry Proje	ect ID		217	71.9D				Well		314 - f		
SCDHEC Permit No.			02	2314								
Project Name			Winds	sor Mart			Testi	ng Paramete	ers	Gauge	Well On	ly
	Date		2 /26	/2016								
Field Pers	onnel		DZ					Well Diamei	er '2		in	T
General We	ather		Sinny				Sci	reened Interv	ral 10-7	21	ft	TAG BOTTOM O
Ambient Air Temper	ature		F O			Total	Well Dept	h (nearest 0.	10 20.9		ft	WELLTO
	Qua	lity As	surance			Depth to Gi	oundwate	r (nearest 0.0	1) 12.62		ft	VERIFY WELL
pH Meter	Horiba U-	-52 - 2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water Colun			ft	DEPTH,
Serial Number	VWKAU	MKJ	S	erial Number	VWKAUMKJ	1 Casing Volume (0.163)		3)		ft	WRITE BELOW TO	
Calibration Constant	Calibration Constant 4.00		Calibration Constant		4.49 mS/cm	3 Casing Volumes (0.489)		9)		gals	NEAREST 0.1'	
Calibration Constant	6.86		Calibra	tion Constant	53.0 mS/cm	Total Volume Purged		ed		gals] ".1	
Calibration Constant	9.18		Calibration Constant		58.7 mS/cm	Purge Technique Utilized (bailer, pum		ітр)	φ)			
Last Calibration (time)			Last Verification √(time)			Well	Well Yield Low 🗆		Medium	Medium 🗌 High 🗌		1
Volume	(gal)											
Time (mil	itary)											
рH	l (su)											
Spec Conductivity (m.	S/cm)											
Water Temperature	? (°C)											
Turbidity (1	VTU)											
Dissolved Oxygen (n	0 /											
Well Condition Information						Additio	nal Comme	nts				
-overall condition accept	table?											
-well cap accept	table?											
-manhole and cover accep	table?											
-well pad accept	table?											
-area	safe?											
-41												

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TERRY Environmental Ser	vices
Cita Chacifia Information	

P.O. Box 25 Summerville, SC 29484

1-800-325-0605 Monitoring Well Information Terry Project ID 2171.9D Well ID 02314-mwzR SCDHEC Permit No. 02314 Project Name Gauge Well Only Windsor Mart **Testing Parameters** Date 2 /26 /2016 ì١ Field Personnel 5 Well Diameter in TAG General Weather 10.3-20.3 5,00 Screened Interval ft BOTTOM OF Ambient Air Temperature Total Well Depth (nearest 0.1') WELL TO 50 20.2 ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 12.67 ft WELL DEPTH, pH Meter Horiba U-52-2 Horiba U-52-2 Length of Water Column ft Conductivity Meter WRITE Serial Number VWKAUMKJ VWKAUMKJ ft Serial Number 1 Casing Volume (0.163) BELOW TO NEAREST Calibration Constant 4.00 4.49 mS/cm 3 Casing Volumes (0.489) Calibration Constant gals 0.1 Calibration Constant 6.86 Calibration Constant 53.0 mS/cm Total Volume Purged gals Calibration Constant 58.7 mS/cm Purge Technique Utilized (bailer, pump) 9.18 Calibration Constant 20.2 Last Calibration (time) Last Verification √(time) Medium High 🗆 Well Yield Low Volume (gal) Time (military) pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L) Well Condition Information Additional Comments -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

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TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25 Summerville, SC 29484

		ENTS FIRST ALWAYS	_					00-325-060:	
		ic Information		M	onitoring V	Vell Informa			
Terry Proje	ct ID	2171.9D				Well ID	02314	Le # M	 צ־ ע
SCDHEC Permi	it No.	02314							
Project ?	Vame	Windsor Mart			Testi	ng Parameters	Gau	ge Well Onl	y
	Date	2/26/2016							
Field Perso	onnel	₽5				Well Diameter	マ	in	m. a
General We	ather	Sony			Scr	eened Interval	10-70	ft	TAG BOTTOM O
Ambient Air Temper	ature	50		Total	Well Depti	t (nearest 0.1')	19.8	ft	WELL TO
	Quality	Assurance		Depth to Gr	oundwater	(nearest 0.01')	10.16	ft	VERIFY WELL
pH Meter	Horiba U-52-	2 Conductivity Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE
Serial Number	VWKAUMK	J Serial Number	VWKAUMKJ		1 Casing V	olume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3	Casing Vo	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm		Total V	olume Purged		gals	0.1
Calibration Constant	9.18	9.18 Calibration Constant 58.7 mS/cm			Purge Technique Utilized (bailer, pump)				
Last Calibration (time)		Last Verification √(time)		Well Yield Low 🗆		Medium 🗌 High 🗆			
Volume	(gal)								
Time (mili	itary)								
рН	l (su)								
Spec Conductivity (mS	S/cm)								
Water Temperature	? (°C)								
Turbidity (?	VTU)								
Dissolved Oxygen (n									
	Well Condi	ion Information				Additiona	ıl Comments		
-overall condition accept	table?								
-well cap accept	table?								
-manhole and cover accept									
-well pad accept									
-area	safe?								
-other com	ments								

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TER	4R	YEn	Vironn ts first alw	nental	Services	<u>s</u>				P.O. Box 25 lle, SC 29484 00-325-0605	
	Site	Specific .	Informatio	n		Monitoring Well Information					
Terry Proje	ect ID		21	71.9D			Well ID	02314	- mwcl		
SCDHEC Permit No.			0	2314							
Project Name			Wind	lsor Mart		Tes	ting Parameters	Gau	ige Well On	ly	
	Date		1/26	/2016				515799-0			
Field Perso	onnel		7	25			Well Diameter	2	in		
General We	ather		5.	mt		S	creened Interval	10-20	ft	TAG BOTTOM OF	
Ambient Air Temper			5.	50		Total Well Dep	oth (nearest 0.1')	8.91.	ft	WELL TO	
		Quality A:	ssurance			Depth to Groundwat	er (nearest 0.01')	15.05	ft	VERIFY WELL	
pH Meter	Hor	iba U-52-2	Cont	luctivity Meter	Horiba U-52-2	Length o	f Water Column		ft	DEPTH,	
Serial Number	VW	KAUMKJ		Serial Number	VWKAUMKJ	1 Casing	Volume (0.163)		ft	WRITE BELOW TO	
Calibration Constant 4.00		4.00	Calibro	ation Constant	4.49 mS/cm	3 Casing Volumes (0.489)			gals	NEAREST 0.1'	
Calibration Constant	nstant 6.86		Calibro	ation Constant	53.0 mS/cm	Total Volume Purged			gals	1 "	
Calibration Constant		9.18	Calibration Constant		58.7 mS/cm	Purge Technique Utilized (bailer, pum		p)			
Last Calibration (time)			Last Verification √(time)			Well Yield Low □		Medium	High		
Volume	(gal)										
Time (mili	itary)										
pН	I (su)										
Spec Conductivity (mS	S/cm)										
Water Temperature	(°C)										
Turbidity (!	NTU)										
Dissolved Oxygen (n						114					
	Well	Condition	Informati	ion			Additiona	l Comments			
-overall condition accept	table?						0				
-well cap acceptable?					DIF	11.97					
-manhole and cover accept	table?					DTU	12.00				
-well pad accept	table?					(Vi)					
-area	safe?										
-other com	ments										

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TER	KRY EN	vironmental .	Services	<u> </u>			Summervill	P.O. Box 25 le, SC 29484 00-325-0605	
	Monitoring Well Information								
Terry Project ID		2171.9D		Well ID					
SCDHEC Permit No.		02314						,	
Project i	Name	Windsor Mart			Testing Parameters	Gauge Well Only			
	Date	2/26/2016							
Field Pers	onnel	ره			Well Diameter	7	in	TAG BOTTOM OF WELL TO	
General We	eather	Suny			Screened Interval	10.3.703	ft		
Ambient Air Temper	rature	50my 50		Total Wel	l Depth (nearest 0.1')	WASAZES	20.2 ft		
	Quality A	ssurance		Depth to Groun	1254	ft	VERIFY WELL		
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Leng	gth of Water Column		ft	DEPTH, WRITE BELOW TO	
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Ca	using Volume (0.163)		ft		
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)			gals	NEAREST 9.1'	
Calibration Constant	6.86	Calibration Constant 53.0 mS/		7	Total Volume Purged		gals		
Calibration Constant	9.18	9.18 Calibration Constant		Purge Technique	e Utilized (bailer, pum	up)			
Last Calibration (time)		Last Verification √(time)		Well Yield Low 🗆		Medium 🗆	High 🗆	70,2	
Volume	(gal)								
Time (mil	litary)								
pl	H (su)								
Spec Conductivity (m.	S/cm)								
Water Temperature	e (°C)								
Turbidity (NTU)								
Dissolved Oxygen (1	ng/L)								
Well Condition Information				Additional Comments					
-overall condition accep	table?								
-well cap accep	table?								
-manhole and cover accep	table?								
-well pad accep	table?								
-area	safe?					···			

-----> www.terryenvironmental.com <------

-other comments

TER	CLIEN	vironmental TS FIRST ALWAYS	Services	<u>s</u>						Summe	erville	P.O. Box 2 e, SC 2948 00-325-060
Site Specific Information					Monitoring Well Information							
Terry Project ID		2171.9D			Well ID		023	14 -	RL	J l		
SCDHEC Permit No.		02314										
Project Name		Windsor Mart	Testing Parameters			Gauge Well Only			/			
Date		2/7€/2016										
Field Perso	onnel	Ðζ	Well Diameter			ч		in		TAG BOTTOM OI WELL TO		
General We	ather	Surry	Screened Interval			10-30		ft				
Ambient Air Temper		56	Total Well Depth (nearest 0.1')			79.8		ft				
	Quality A	ssurance		Depth to Gr	roundwater	r (neares	t 0.01')	13.01		ft		VERIFY WELL DEPTH,
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water C	olumn			ft		
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	I Casing Volume (0.163)				ft		WRITE BELOW TO NEAREST 0.1'		
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)					gals		;	
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Volume Purged					gals			
Calibration Constant	9.18	Calibration Constant		Purge Technique Utilized (bailer, pum			p)				24.2	
Last Calibration (time)		Last Verification √(time)		Well Yield Low 🗆			Medium	1edium 🗆 High 🛭			24.8	
Volume	(gal)											
Time (mili	itary)											
pH (su)												
Spec Conductivity (mS	S/cm)											
Water Temperature	· (°C)											
Turbidity (/	VTU)											
Dissolved Oxygen (n												
Well Condition Information				Additional Comments								
-overall condition acceptable?				2000								
-well cap acceptable?			12.06									
-manhole and cover acceptable?				2001								
-well pad acceptable?				15,01								
-area	safe?											

-----> www.terryenvironmental.com <------

-other comments

TER	CLIEN	vironmental of the state of the	Services	5					P.O. Box 25 le, SC 29484 00-325-0605		
Site Specific Information					Monitoring Well Information						
Terry Proje	ect ID	2171.9D		Well ID		02314	-RUZ				
SCDHEC Permit No.		02314									
Project Name		Windsor Mart			Testing Parameters			Gauge Well Only			
Date		<u>ገ</u> /7ሬ /2016	1								
Field Pers	onnel	D)	Well Diameter			L)	in				
General We	ather	Sont	Somi			Screened Interval			TAG BOTTOM OF		
Ambient Air Temper	rature	50		Total Well Depth (nearest 0.1')		29,9	ft	WELL TO			
	Quality A	ssurance		Depth to Groundwater (nearest 0.01')			12.07	ft	VERIFY WELL		
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE		
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing Volume (0.163)			ft	BELOW TO NEAREST 0.1'			
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)			gals				
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Volume Purged		<u> </u>	gals				
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utilized							
Last Calibration (time)		Last Verification √(time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆			
Volume	(gal)										
Time (mil	itary)										
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)										
Dissolved Oxygen (r	•										
Well Condition Information						Additiona	ıl Comments	3			
-overall condition acceptable?											
-well cap accep	table?										
-manhole and cover accep	table?										
-well pad accep	table?										
-area	safe?										
atlear ages	res osedo			l .							

-----> www.terryenvironmental.com <------

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifest



Non-Hazardous Manifest: Waste Water	or Drums	Num	ber:	
Generator's EPA ID# (if applicable):		Waste ID	Number:	
2. Generator's Name and Mailing Address: Con MBn (ロアル	hem. I	Phone	()	
820 ChesTe		*/PO#		
Chenau s	*	/ 1 O π.		
3. Agent of Generator and Mailing Address: Tuny Env	<u>(</u>	Phone	()	
P.O 130x 25	-	P O #:	` /	
Sammall	57/	P U #,		
4. Transporter Company Name: Food self Sorvi Sil ald MT Hally	ices and	Phone	()	
Truck & Trailer License Number: 6005c Corack	56 2944			
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:		Mailina Ast 1		Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.	U	Mailing Add S Water Red	covery	Fax: (843) 797-1884
Goose Creek, SC 29445		1 Old Mt. Ho se Creek, So		(),
7 Facility U.S. EPA ID#:	.:			
Start Level: End Level:		Total Gallo	ons:	Tank Number
8. U.S. DOT Description	0.5		1	
o. o.o. bo i besonpaori	No.	tainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	703	4	6.7	5277
0.00				
Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marke to applicable international and national government regulations and are as represented by the description contained on the Waste Profile	d and labeled, an I the laws of the S	d are in all re tate of South	espects in proper Carolina, I furthe	condition for transport by highway according
Printed/Typed Name: Signature		/	and approved by	Date:
Transporter Acknowledgement of Receipt of Materials		<u>/ </u>	***********	3/2/108
Printed/Typed Name: Signature:	langhaipean d		and the state of t	Date:
11. Discrepancy Indication space:				· · · · · · · · · · · · · · · · · · ·
12. Facility Owner or Operator: Certification of Receipt of Materials				
Printed/Typed Name: Signature:				Date
White - Facility Yellow - Offi	ce Pink	: - Transp	orter E	Blue - Generator

ening Of



White - Facility

Non-Hazardous Manifest: Waste Water or	r Drums	Numbe	er:	
1. Generator's EPA ID# (if applicable);		Waste ID Nun	nber:	N. N.
Generator's Name and Mailing Address:		Phone ()	5
WINDSOE MAKET		. •	•	,
620 Chaster July Highway		P O #:		
GARRAID, SW	·. 	*		
Agent of Generator and Mailing Address:		Phone () .	
TORY / SAMPLOW MODEL ! YEST	Se .		•	
PO. BOX 25	ett.	P _. O #:		•
1 Transporter Company Name:		Di.		*
4. Transporter Company Name: Good Sell Survice	CS 1	Phone ()	•
511 012 MT Ha	119 KA			m.
4. Transporter Company Name: Fundsell SUNIC 511 old MT Har Truck & Trailer License Number: Fundsell SUNIC	29445	,		
5. Transporter U.S. EPA ID#:	· · · · · · · · · · · · · · · · · · ·			
o Facilità Name and Olivia della		A_10- * * * *		Phone: (843) 797-3111
Facility Name and Site Address: US Water Recovery		lailing Addres Water Recov		` <i>'</i>
511 Old Mt. Holly Rd.	511	i Old Mt. Holly	Rd.	Fax: (843) 797-1884
Goose Creek, SC 29445	Goos	se Creek, SC 2	29445	N.S.
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons		Tank Number
8. U.S. DOT Description	Con	tainer	Unit	Quantity
	No.	Туре		
a. Non-Hazardous, non-regulated waste water	103	4-7	6.1	5145
		:		7.20
		*		
				2.
			Na.	ą y
			1	1
9. Generator's Certification: I hereby declare that the contents of this co	onsignment are	not hazardous	by definition or	listing and are fully and accurately described
above by proper shipping name and are classified, packed, marked a	and labeled, an	u are in all resp tate of South C	bects in proper Carolina. I furthe	condition for transport by nighway according er certify that the contents of this consignment
to applicable international and national government regulations and the	ie iaws of the S	J. JOURI C	The state of the s	
to applicable international and national government regulations and th are as represented by the description contained on the Waste Profile F				
are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature:				
are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials				the Designated Facility.
are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:				the Designated Facility.
are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature:				the Designated Facility. Date: 7 / 7 / 10
are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature:				the Designated Facility. Date: 7 / 7 / 10
are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature:				the Designated Facility. Date: 7 / 7 / 10
are as represented by the description contained on the Waste Profile F Printed/Typed Name: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature:				the Designated Facility. Date: 7 / 7 / 10

Yellow - Office Pink - Transporter

Blue - Generator

Non-Hazardous Manifest: Waste Water o	r Drums	Numb	er:	
Generator's EPA ID# (if applicable):		Waste ID Nur		
2. Generator's Name and Mailing Address: Connen Cuplian	nd	Phone ()	
8-2.0 Chister /1	-Id Hny	PO#:		
3. Agent of Generator and Mailing Address: Temy Fri				
3. Agent of Generator and Mailing Address: エムハタ モルレ		Phone ()	
·		P O #:		
4. Transporter Company Name: Goodself Sonv 511 old MT A	<u>\$(294</u> 7605 Yolly Rd	Phone ()	
Truck & Trailer License Number: 6005 C (1+1/6)	56 2944	3		
5. Transporter U.S. EPA ID#:	······································			
Facility Name and Site Address:		lailing Addres	s:	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov Old Mt. Holly	ery	Fax: (843) 797-1884
Goose Creek, SC 29445		se Creek, SC 2		
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Cont	ainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	レナ	G. l	52.77
			- W 1	
				· .
9. Generator's Certification: I hereby declare that the contents of this co above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F	and labeled, and e laws of the St	are in all respon ate of South Ca	ects in proper arolina. I furthei	condition for transport by highway according
Printed/Typed Name: Signature:		: /	, -pp,	Date:
10. Transporter Acknowledgement of Receipt of Materials	nance the second control of the second contr	<u> </u>	<u> </u>	
Printed/Typed Name: Signature:	Assertance of the second secon	•		Date: 2 /2 / / /
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials		······	.:	
Printed/Typed Name: Signature:		gerge 11 to	A ST	Date

Blue - Generator

Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:		
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:		
2. Generator's Name and Mailing Address:	aizal\	Phone ()		
FORMALLY WINTSOR MART (COENCE COPODE SW CHUSTER MICH MIGHWAY CHURAW, SC	Midway (more above)				
3. Agent of Generator and Mailing Address:		DI /			
TOUR SALV		Phone ()	·	
FLAMMERVILL, SL		P O #:			
4. Transporter Company Name:		Phone ()		
Truck & Trailer License Number: GOUSE CREEK, 5L 294	45				
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:	l l	Mailing Addres	s:	Phone: (843) 797-3111	
US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 51	S Water Recov 1 Old Mt. Holly se Creek, SC 2	ery Rd.	Fax: (843) 7.97-1884	
7 Facility U.S. EPA ID#:					
Start Level: End Level:		Total Gallons:		_ Tank Number	
8. U.S. DOT Description	Cor No.	tainer Type	Unit	Quantity	
a. Non-Hazardous, non-regulated waste water	103	6-7	6-1	4625	
			100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to	**************************************	
9. Generator's Certification: I hereby declare that the contents of this cor above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Formula.	nd labeled, an a laws of the S	d are in all resp state of South Ca	ects in proper arolina. I furthe	condition for transport by highway according er certify that the contents of this consignment	
Printed/Typed Name: Signature:	$u \in \Lambda_{i}$	Sameon	· · · · · · · · · · · · · · · · · · ·	Date: 2. / ≥ / / 10	
10. Transporter Acknowledgement of Receipt of Materials	- V				
Printed/Typed Name: Signature:		The second second second second second second second second second second second second second second second se		Date:	
11. Discrepancy Indication space:			-	3	
12. Facility Owner or Operator: Certification of Receipt of Materials			Professional and South Statement and Stateme		
Printed/Typed Name: Signature:				Date	
White - Facility Yellow - Office	: Pink	(- Transpo	rter E	Blue - Generator	

Non-Hazardous Manifest: Waste Water o	r Drums	Numl	ber:		
Generator's EPA ID# (if applicable):		Waste ID N	umber:	· · · · · · · · · · · · · · · · · · ·	
2. Generator's Name and Mailing Address:		Phone ()		
Oncrawist they		P O #:			
Agent of Generator and Mailing Address:		Phone (1		
tagy Environmental		`	,		
TOXY FOUNDAMENTAL SUMMERVING, SC 29484		P O #:			
4. Transporter Company Name;		Phone ()		
GOODS OF HOLY FA	garren				
Truck & Trailer License Number: Goose (1984, SC 7	1112				
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:	ľ	Mailing Addre	ess:	Phone: (843) 797-3111	
US Water Recovery 511 Old Mt. Holly Rd.		6 Water Reco 1 Old Mt. Holl		Fax: (843) 797-1884	
Goose Creek, SC 29445		se Creek, SC			
7 Facility U.S. EPA ID#:					
Start Level: End Level:		Total Gallor	າຣ:	Tank Number	
8. U.S. DOT Description	Cor No.	tainer Type	Unit	Quantity	
a. Non-Hazardous, non-regulated waste water	103	VT	aut	5248	
			(2)		
			;		
				WITHOUT HOLD THE POST OF THE P	
		1			
9. Generator's Certification: I hereby declare that the contents of this co above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F	and labeled, an e laws of the S	d are in all restate of South	spects in proper Carolina. I furthe	condition for transport by highway according r certify that the contents of this consignment	
Printed/Typed Name: Signature:	74, 1	S. San Della Contact of		Date: 2/4//(C	
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	Accommend			Date: 2/4//6	
11. Discrepancy Indication space:			**************************************		
12. Facility Owner or Operator: Certification of Receipt of Materials	*				
Printed/Typed Name: Signature:				Date	

White - Facility Yellow - Office Pink - Transporter

Blue - Generator

Non-Hazardous Manifest: Waste Wate	er or Drums	Numb	er:	
Generator's EPA ID# (if applicable):		Waste ID Nur	mber:	
2. Generator's Name and Mailing Address: Conta Copt	Beard	Phone ()	
2. Generator's Name and Mailing Address: このよい しゅん どこの ChcsTuず	ald Hwy	P O #:		
Chenaw SE	ner.			
3. Agent of Generator and Mailing Address: Tenny Env	······································	Phone (-)	
,		P O #: .		
SUMMEN	L 60 2944.			
4. Transporter Company Name: Goalse// St	ensyles C	Phone ()	
Truck & Trailer License Number	cksc 2944	4		
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:		- Andrew		
				Phone: (843) 797-3111
Facility Name and Site Address: US Water Recovery		lailing Addres Water Recov		
511 Old Mt. Holly Rd. Goose Creek, SC 29445	511	Old Mt. Holly se Creek, SC 2	Rd.	Fax: (843) 797-1884
7 Facility U.S. EPA ID#:	4008	se Oreen, SO 2		· · ·
•		Tatál Calians		Tank Number
Start Level: End Level:		Total Gallons	\$;	a ank number
8. U.S. DOT Description	Cont	tainer	Unit	Quantity
	No.	Туре		
a. Non-Hazardous, non-regulated waste water	103	27	4-1	539/
* ,				. <
	1			
O Consequence Contification I have by declare that the contests of			bu definition o	y listing and are fully and accurately described
 Generator's Certification: I hereby declare that the contents of above by proper shipping name and are classified, packed, ma to applicable international and national government regulations are as represented by the description contained on the Waste Pr 	irked and labeled, and and the laws of the St	d are in all resp tate of South C	pects in proper Carolina. I furthe	r condition for transport by highway according er certify that the contents of this consignment
Printed/Typed Name: Signat		sabilitted to a	nd approved b	Date:
10. Transporter Acknowledgement of Receipt of Materials	<u> </u>	(1	<u> Nêza, Libi</u> G	
Printed/Typed Name: Signat	ure:			Date:
11. Discrepancy Indication space:	<u></u>			
12. Facility Owner or Operator: Certification of Receipt of Materials				
Printed/Typed Name: Signat	ure:	i i		Date
			950° (44,612000) 1500 1500 1500 1500 1500 1500 1500	
White - Facility Yellow - C	Office Pink	- Transp	orter l	Blue - Generator



White - Facility Yellow - Office

Non-Hazardous Manifest: Waste Water o	or Drums	Numb	er:			
Generator's EPA ID# (if applicable):		Waste ID Nur				
2. Generator's Name and Mailing Address: WINSOR MART (LORNIE (LIVINGET)		Phone ()			
WINDSOR MART (CORNER appeared) 620 anestorfield Highway		PO#:				
(Mikaw, SC						
3. Agent of Generator and Mailing Address: てくとす をいく		Phone ()	:		
P.O. BOX SUMMERVILL, SC 29484		P O #:				
4. Transporter Company Name: SILOIS M. HOW KA. SOURCE CREEK ISC 17445 Truck & Trailer License Number:		Phone ()			
5. Transporter U.S. EPA ID#:						
6. Facility Name and Site Address:		Mailing Addres	s:	Phone: (843) 797-3111		
US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 51	Water Recov Old Mt. Holly se Creek, SC 2	ery Rd.	Fax: (843) 797-1884		
7 Facility U.S. EPA ID#:						
Start Level: End Level:		Total Gallons	:	Tank Number		
8. U.S. DOT Description	Con No.	tainer Type	Unit	Quantity		
a. Non-Hazardous, non-regulated waste water	103	17	aut	52/9		
	4		ا ا	,		
		-		· · · · · · · · · · · · · · · · · · ·		
9. Generator's Certification: I hereby declare that the contents of this c above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and ti are as represented by the description contained on the Waste Profile.	and labeled, and ne laws of the S	d are in all resp ate of South Ca	ects in proper arolina. I furthe	condition for transport by highway according er certify that the contents of this consignment		
Printed/Typed Name: Signature:	40 11	and the second s		Date: 7 / 5 / 3 (Q		
Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Signature: Discrepancy Indication space:	14	a ta ta ta ta ta ta ta ta ta ta ta ta ta	Market Market Space Con-	Date:		
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature:		;		Date		

Pink - Transporter

Blue - Generator



Non-Hazardous Manifest: Waste Water or Drums			Number:				
Generator's EPA ID# (if applicable):		Waste ID Nur	nber:				
2. Generator's Name and Mailing Address:	1	Phone ()				
2. Generator's Name and Mailing Address: Conn. Cuplemo 820 Chestofir	elef Huyl	P O #:					
(herun s(
(Ferun S(3. Agent of Generator and Mailing Address: Tenny Env		Phone ()				
		PO#: ,					
Support /e	5(
4. Transporter Company Name: fealself Savice 511 old DT Hall	rs grad	Phone ()				
Truck & Trailer License Number: 60038 GTCK	S/ 7944	<					
5. Transporter U.S. EPA ID#:	<u> </u>	<u></u>					
6. Facility Name and Site Address;	M	ailing Addres		Phone: (843) 797-3111			
ÚS Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov	ery	Fax: (843) 797-1884			
Goose Creek, SC 29445		e Creek, SC 2					
7 Facility U.S. EPA ID#:	. L	***************************************					
Start Level: End Level:		Total Gallons	·	Tank Number			
8. U.S. DOT Description	Cont No.	ainer Type	Unit	Quantity			
a. Non-Hazardous, non-regulated waste water	103	L.T	Cara 1	22 <i>0</i> 9			
			,	-			
		······································					
	7						
		111 4 114 114 114 114 114 114 114 114					
 Generator's Certification: I hereby declare that the contents of this co above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Fe 	nd labeled, and e laws of the Sta	are in all resp ate of South C	ects in proper arolina. I furthe	condition for transport by highway according retrify that the contents of this consignment			
Printed/Typed Name: Signature:				Date:			
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	.7			Date:			
11. Discrepancy Indication space:				1			
12. Facility Owner or Operator: Certification of Receipt of Materials							
Printed/Typed Name: Signature:	, the first of the			Date			

Non-Hazardous Manifes	t: Waste Water or	Drums	Numbe	 	<u> </u>	
1: "Generator's EPA ID# (if applicable):			Waste ID Numi	bér.		
.2. Generator e Name and Mailing Address	GORAGE CUPTON 820 Chestupell	1 Huy	Phone (P O #:			
	Cheraw SC					
3. Agent of Generator and Malling Address			Phone (P Q #:			
4. Transporter Company Name	Summer ville Bridgell Sans STI Old MT HALL GOOSE CATEKS	ig rd	Phone ()		
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:		7.944		•		
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445;		. US 511	eiling Addres Water Recov Old Mt. Holly e Creek, SC 2	ery Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884	
7。Facility U.S: EPA 的#、编		<u> </u>				
Start Level:	End Level;		Total Gallons	:	Tank Number	
.8. U.S. DOT Description		Con No.	tainer Type	Unit	Quantity	
a Non-Hazardous, non-regula	ated waste water	103	27	bort	5000	
	- May a position			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	34					
				·		
						
, , , , , , , , , , , , , , , , , , , ,						
Generator's Certification: I hereby decl above by proper shipping name and a to applicable international and national are as represented by the description of	re classified, packed, marked a covernment regulations and the	and labeled, at e laws of the S	id are in all resi State of South (pects in proper Carolina. I furthe	er certify that the contents of this	Ada acception A
Brintod/Dimod Namo	Ilano Signature:		Subtricted to a		Date:	
Transporter Acknowledgement of Reco Printed/Typed Name:	<u> </u>				Date: 2/9	116
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12. Facility Owner or Operator: Certification Printed/Typed Name:	of Receip of Materials Shphature:	(7	DW	Date 2	3-16
White - Facili	ty Yellow - Offic	e Pin	k - Transp	orter l	Blue - Generator	

Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:	
2. Generator's Name and Mailing Address:		Phone (:)	
Windsor Mart		P O #: .		
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Agent of Generator and Mailing Address:		Phone ()	
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5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:		ailing Addres	S.	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov Old Mt. Holly	·ery	Fax: (843) 797-1884
Goose Creek, SC 29445		e Creek, SC 2		
7 Facility U.S. EPA ID#:			·	
Start Level: End Level:		Total Gallons	1	Tank Number
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Printed/Typed Name: Signature:	521	Soul		Date: 2/9//6
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:		7		Date: /9 / 1/-
11. Discrepancy Indication space:	riaco	your		2/1/14
12. Facility Owner or One ator: Certification of Recelpt of Materials Printed/Type i Name: White - Facility - Vellow - Office		Transpor		Date 02/86/4

Non-Hazardous Manifest: Waste Water or I	Drums	Numbe		
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2. Generator's Name and Mailing Address: Connen Cuplemol	•	Phone ()	
820 chestorfield Cheraw sc	Huy	P O #:		
cheraw sc				
3. Agent of Generator and Mailing Address: Terry Erv	1	Phone ()	
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4. Transporter Company Name: Goodsell Service 511 old NT Holl	y rd	Phone ()	
Truck & Trailer License Number: 6005-C Care/CSC	29445			
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address; US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 511	lailing Address Water Recove Old Mt. Hölly, I se Creek, SC 29	ory Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884
7 Facility U.S. EPA ID#:				
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Symmerville SC 291 4. Transporter Company Name: Goodsell Transporter Company Name: Go	ni s O o a		·Phone ()			
511 Bld M+ Hally Rel	as gran	, .					
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5. Transporter U,S, EPA ID#:	•	ŧ					K The
6. Facility Name and Site Address:			Mailing Addre	\$\$:	Phone: (84	13) 797-3111	
US Water Recovery 511 Old Mt. Holly Rd.	•		US Water Reco	very ·	Fex: (843) 7 97~1884	
Goose Creek, SC 29445	:		oose Creek, SC				
7 Facility U.S. EPA ID#;			· · · · · · · · · · · · · · · · · · ·				
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to applicable international and national government regulation are as represented by the description contained on the Wast	ола and th te Profile F	ne laws of th Form previou	e State of South (Islv submitted to a	Carolina. I furthe and approved b	er certify that v the Designa	the contents of this ted Facility:	consignment
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Non-Hazardous Manifest: Waste Water or เ)rums	Numbe	rs	
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2. Generator's Name and Mailing Address: Compre Corpboard	7	Phone (•)	▲ √?
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Cheron sc	٠			
3. Agent of Generator and Malling Address: Tenny Env		Phone ()	
<i>"</i>		P O #:	`	
su menulle	5(-
4. Transporter Company Name: boodsoll 30 MC- 511 old of Holly	19	Phone ()	
Truck & Trailer License Number: 6-35 CO SEKSC	1944			
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:		alling Address		Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.	511	Water Recove Old Mt. Holly F	łd.	Fax: (843) 797-1884
Goose Creek, SC 29445	Goos	e Creek, SC 29	445	
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Cont	ainer	Unit	Quantity
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11. Discrepancy Indication space:	U	M	د ا)
12. Facility Owner or Operator: Certification of Receipt of Materials		~	//	
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White - Facility Yellow - Office	Pink	- Transpo	rter B	lue - Generator

	Non-Hazardous Manifest; Waste Water or	Drums	<u>N</u> umb	er:		
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3.	Agent of Generator and Malling Address:		Phone ()		
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4.	Transporter Company Name: Good Sell Transport 511 DId Mt Holly Rd uck & Traller License Number: Goose Cneel ;		Phone (•)		-
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٥,	US Water Recovery	US	Water Reco	very	Fax: (843) 797-1884	· .
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7	Facility U.S. EPA ID#:	<u></u>				
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Non-Hazardous Manifest: Waste Water or	Drums	Numb	er:	
1. Generator's EPA ID# (If applicable):		Waste ID Nu	nber:	,
2. Generator's Name and Malling Address: Consin Captor 820 chesterfie	and.	Phone ()	
820 Chesterfie	ld Hay	PO#:		Carren West
Cheran 6c				
3. Agent of Generator and Mailing Address: Terry Fac		Phone (.) .	· · · · · · · · · · · · · · · · · · ·
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4. Transporter Company Name: Goodsell Service 511 dd 17 Holl	ig nd	Phone () *.	
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6. Facility Name and Site Address:		Mailing Addres	38;	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.	U	S Water Reco 1 Old Mt. Holly	very	Fax: (843) 797-1884
Goose Creek, SC 29445		se Creek, SC		
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Start Level: End Level:		Total Gallons	S .	Tank Number
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Printed/Typed Name: Shim Soilling & Signature:				Date: 2/12/16
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	1			Date: 2/11/16
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White - Facility Vellow - Office	- n:-	k - Transny	J r	Blue - Generator

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1. Generator's EPA ID# (if applicable):		Waste ID Num	nber:		
2. Generator's Name and Malling Address: Corner Cupboard		Phone ()		
Cheraw St					
3. Agent of Generator and Mailing Address:		Phone ().		
10.17 Enough		P O #:			
4. Transporter Company Name: GoodSell Transport	*	Phone ()		
Truck & Traller License Number: 5. Transporter U.S. EPA ID#:				·	<u> </u>
				Phono: /040\ 707 64	11
6. Facility Name and Site Address: Fig. Water Recovery 571 Old Mt. Holly Rd. Goose Creek, SC 29445	US 511	Mailing Addres Water Recov Old Mt. Holly se Creek, SC 2	very Rd.	Phone: (843) 797-311 Fax: (843) 797-1884	
7 Facility U.S. EPA ID#;				3	
Start Level: End Level:		Total Gallons		Tank Nu	mber
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Signature:				Date:	
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Todd Brown Signature:	Dock	(Br		Date:	2-13-16
11. Discrepancy Indication space:	_		.,,		
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature:	Wath		Econogogogogogogogogogogogogogogogogogogo	Date	B2-73-6
White - Facility Yellow - Office	e Pinl	k - Transpo	orter l	Blue - Generator	• · ·

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9D

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,	X		
4	telephone number, and certification number provided?	Λ		
5	Is the name, address, telephone number, and certification number of the well			X
3	driller that installed borings/monitoring wells provided?			Λ
6	Is the name, address, telephone number, and certification number of the certified			X
0	laboratory(ies) performing analytical analyses provided?			Λ
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 Sect 3		
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 aguifer evaluation and results?	21		X
27	Does the report include a brief discussion of the fate & transport models used?			X
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

Item #	Item	Yes	No	N/A
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) - Gauging Logs Only	X		
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.

	LETTER OF	TRANSMIT	TAL
To:	Ashleigh Trash	From:	Kelly Cone i A
Address:	2600 Bull Street	Address:	PO Box 25 (5)
City:	Columbia	City:	Summerville
State, Zip:	SC, 29201	State, Zip:	SC 29484
Phone:	803-898-0607	Phone:	843-873-8200
Fax:	NA	Fax:	843-873-8765
URGENT	☐ FOR REVIEW ☐ PLEASE COMMENT ☐		

THE CONTENTS OF THIS TRANSMISSION ARE PRIVILEGED AND CONFIDENTIAL IN THE EVENT THAT YOU HAVE RECEIVED THIS TRANSMISSION IN ERROR, PLEASE CONTACT 1-800-325-0605 AND WE WILL RETRIEVE THEM AT NO COST TO YOU

NOTES/COMMENTS:

Dear Ms. Thrash,

This letter is in response to our conversation regarding the documentation of the quantity of effluent water recovered at our recent AFVR Events. I apologize for not providing this documentation initially under QAPP, Rev. 3. Please see the site details below and accept the attached letter from our disposal contractor as documentation of how the effluent gallons were measured.

Windsor Mart (Permit # 02314; CA #51642) Events conducted: Feb 1 -5 and Feb 8-12, 2016

Report submitted: February 26, 2016

Should you have any questions or comments, please feel free to contact us at your earliest convenience.

Sincerely.

Kelly K. Cone, Project Manager



03/15/2016

Terry Environmental P.O. Box 25 Summerville, SC 29484

Dear Mrs. Conc

For the month of January and February USWR was measuring the volume of water according to the gages on their tankers. USWR now is measuring the volume of water by weight ticket.

If you have any questions or need further assistance with this matter, please feel free to contact me at (843) 712 0055

Respectfully.

Paul Goodsell President

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MR CHARLES JACKSON JACKSON OIL COMPANY INC PO BOX 968 CHESTERFIELD SC 29520-0968

MAR 2 4 2016



Re: **AFVR Directive**

Windsor Mart, 820 Chesterfield Highway, Cheraw, SC UST Permit #02314; CA #52216 Release reported December 6, 1991 AFVR Report received March 3, 2016 Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Terry Environmental Services, Inc. as your contractor. The next appropriate scope of work at the site is to continue aggressive fluid and vapor recovery (AFVR) to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). The AFVR events must be conducted in accordance with the current revision of the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at https://www.scdhec.gov/environment/lw/ust/ReleaseAssessmentClean-up/QualityAssurance/.

Cost Agreement #52216 has been approved in the amount shown on the enclosed cost agreement form for one 96-hour AFVR event to be conducted at the site. The AFVR event should be conducted on MW-4 and RW-1. The stingers shall be lowered at six inch intervals starting at the water table interface to the estimated historical low water table elevation for each well within the first 8 hours of the event. Thereafter, stingers should be adjusted to maximize FP and/or vapor recovery while maintaining dewatering of the smear zone. Approximately 15 days after conclusion of the AFVR event, all wells historically containing free product and recovery wells should be gauged. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

The Agency grants pre-approval for transportation of up to 40,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference **UST Permit #02314**. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash, Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc)

Technical File (w/ enc)

Approved Cost Agreement 52216

Facility 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7 THRASHAM

PO Number

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
04 MOB/DEMOB				
	B1 PERSONNEL	1 0000	\$423.000	423 00
10 SAMPLE COLLECTION				
	E1 GAUGE WELL ONLY	7.0000	\$7.000	49 00
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	\$32,014 250	3,841.71
23 EFR				
	A4 96 HOUR EVENT	1.0000	\$12,567.500	12,567.50
	C4 OFF GAS TREATMENT 96 HOUR	1 0000	\$780 000	780 00
	D SITE RECONNAISSAINCE	1.0000	\$203 250	203.25
	F1 EFFLUENT DISPOSAL	40,000 0000	\$0.440	17,600.00
	G AFVR EQUIPMENT MOB	1 0000	\$391.500	391 50
		Total Am	ount	35,855 96

March 24, 2016 Page 1 of 1 suprcait.rdf Rev: 1.15

Document Receipt Information

Hard Copy	СД	Email
	<i>i</i> - 17 11	
Date Received	5-17-16)
Permit Number	02314	<i>f</i>
Project Manager	Ashleigh ,	Thash
Name of Contractor	7	<u>S</u>
UST Certification Nu	mber	
Docket Number		214el
		·
Scanned		
AFV	R/Caugin	(Report

AGGRESSIVE FLUID VAPOR RECOVERY (AFVR) AND GAUGING EVENTS REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #52216

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9E

KELLY K. CONE, PG Vice President, Assessment Services

KK Con

JASON A. TERRY, PG President

MAY 2016



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company (Contact: Charles Jackson)

Address: 755 South 4th Street, Hartsville, SC 29550

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 Certification: UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Not Applicable

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	122

No _ XXXX
n/a
n/a
n/a



7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1.000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. During this scope of work, depth to groundwater was measured between 15 and 17 feet below top of casing in the recovery and influence wells gauged prior to the start of the events.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.

E. GROUNDWATER DATA

Not Applicable. No groundwater samples were collected during this scope of work.

F. AFVR INFORMATION

1. Scope of Work

As directed by SCDHEC, a 96-hour continuous AFVR Event was performed on monitoring/recovery wells MW-4 and RW-1. The event was conducted between April 25, 2016 and April 29, 2016 by TERRY Environmental Services, Inc.

2. AFVR Emissions Table

AFVR Emissions Table – Attached

Extraction Well Stinger Depth Table - Attached

3. Vacuum Data Table

Vacuum Data Table - Attached

4. Volume of Water Recovered

A total of 27,717 gallons of fluid were recovered during the 96-hour event conducted April 25, 2016 through April 29, 2016.

5. Volume of Product Recovered

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

6. Mass of Petroleum Recovered as Vapor

A total of 58.77 pounds of volatile organic vapors (approximate equivalent of 9.40 gallons of gasoline) were recovered during the course of the 96-hour event conducted April 25, 2016 through April 29, 2016. Off-gas treatment was provided during the events as directed by the SCDHEC Project Manager.

7. Free Product Thickness Table

Free Product Thickness Table - Attached

Free Product Thickness Table (Gauging) – Attached

8. AFVR Event Map

Figure F-8 AFVR Map – Attached

SECTION F-2A AFVR EMISSIONS TABLE WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 Average Depth to Groundwater: Describe Soil in Saturated Zone: EMISSION CALCULATION 42.19 200.17 800.62 / 4 400.99 7.2005-04 0.65 0.75 0.12 42.19 201.27 800.66 04 4 400.61 12 5.15 0-0 0.65 0.75 0.12 42.19 201.27 800.66 04 4 400.61 12 5.15 0-0 0.65 0.75 0.12 42.00 190.64 753.76 4 361.00 7.27 0.15 0.00 0.00 0.09 0.11 42.19 10.201.47 1598.83 4 361.00 7.27 0.10 0.00 0.09 0.11 42.56 1961.17 1598.43 4 361.00 7.27 0.10 0.00 0.09 0.11 42.56 1961.17 1598.47 4 3961.00 7.27 0.10 0.00 0.09 0.11 42.56 1961.10 7804.07 4 374.74 2.2415-04 0.00 0.09 0.11 42.56 1961.07 7805.07 4 374.74 2.2415-04 0.00 0.09 0.11 42.56 1961.07 7805.07 4 374.74 2.2415-04 0.00 0.09 0.11 42.56 1961.07 7805.07 4 374.74 2.2415-04 0.00 0.09 0.11 42.56 1961.07 7805.07 4 3961.07 0.00 0.00 0.09 0.11 42.56 1961.07 7805.07 4 3961.07 0.00 0.00 0.09 0.11 42.56 1961.07 7805.07 4 3961.07 0.00 0.00 0.00 0.00 0.11 41.94 127 0.00 7480.02 4 3782.24 2.2055-04 0.00 0.00 0.70 0.11 41.94 127 0.00 7480.02 4 3782.24 2.2055-04 0.00 0.07 0.11 41.94 127 0.00 7480.02 4 300.00 0.00 0.00 0.00 0.00 0.11 42.11 180.00 7480.02 4 3607.00 0.00 0.00 0.00 0.00 0.11 42.11 180.00 7480.02 4 3607.00 0.00 0.00 0.00 0.00 0.11 42.11 180.00 7480.00 4 3607.00 0.00 0.00 0.00 0.00 0.11 43.00 7480.00 7480.00 0.00 0.00 0.00 0.00 0.11 44.18 1788.80 7455.60 4 3507.00 2 2205-04 0.50 0.05 0.05 0.05 0.10 44.18 1788.80 7455.60 4 3507.00 2 2205-04 0.50 0.65 0.05 0.10 44.19 1747.00 7460.00 4 3607.00 0.00 0.00 0.00 0.00 0.11 42.11 1781.20 7184.00 4 3506.00 2 22166-04 0.50 0.50 0.05 0.05 42.11 1781.20 7184.00 4 3506.00 2 22166-04 0.50 0.50 0.05 0.10 42.11 1781.20 7184.00 4 3606.00 2 22166-04 0.50 0.50 0.00 0.10 42.25 1865.80 6 743.11 4 3421.50 2 1396-04 0.55 0.05 0.05 0.00 0.10 42.25 1865.80 6 743.11 4 3421.50 2 1396-04 0.55 0.05 0.00 0.10 42.25 1865.80 6 743.11 4 3421.50 2 1396-04 0.05 0.05 0.00 0.10 42.25 1865.80 6 743.11 4 3304.70 2 0.056-04 0.55 0.00 0.10 42.25 1865.80 6 743.11 4 3304.70 2 0.056-04 0.55 0.00 0.10 42.25 1865.80 6 743.11 4 3304.70 2 0.056-04 0.55 0.00 0.10 42.25 1865.80 6 743.11 4 3304.70 2 0.056-04 0.55 0.0

AFVR Definitions and Equations

Qstd = (60 sec/min) (1- Bws) (velocity) (Pipe ID sq.ft.) [(528 oR / (Temp. + 460)] (Listed As Flow Above)

 $Bws = (B_{wsw} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)

Cc = Ccm (62.43 E - 9 lb-m³/mg-ft³) PMRg = (PMRc) (Mg/Mcg)

Bgs = below top of casing

 $Bws = (B_{WSW} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole } dry \text{ air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

Qstd = (60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm³, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

 $K_3 = 24.07 \text{ dsm}^3/10^6 \text{ mg-mole}$, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K₃)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 APRIL 25-29, 2016

Well #	MW-4	Well #	RW-1
Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*
0	15.5	0	15.5
0.5	16.0	0.5	16.0
1	16.5	1	16.5
1.5	17.0	1.5	17.0
2	17.5	2	17.5
2.5	18.0	2.5	18.0
3	18.5	3	18.5
3.5	19.0	3.5	19.0
4	19.5	4	19.5
4.5	20.0	4.5	20.0
5	20.0	5	20.0
5.5	20.0	5.5	20.0
6	20.0	6	20.0
6.5	20.0	6.5	20.0
7	20.0	7	20.0
7.5	20.0	7.5	20.0
8	20.0	8	20.0
9	20.0	9	20.0
10	19.0	10	19.0
11	18.0	11	18.0
12	19.0	12	19.0
13	20.0	13	20.0
14	20.0	14	20.0
22	20.0	22	20.0
23	19.0	23	19.0
24 26	18.0	24 26	18.0 18.0
28	18.0 19.0	28	19.0
30	20.0	30	20.0
32	20.0	32	20.0
34	20.0	34	20.0
36	20.0	36	20.0
38	20.0	38	20.0
46	20.0	46	20.0
48	20.0	48	20.0
50	19.0	50	19.0
52	18.0	52	18.0
54	18.0	54	18.0
56	19.0	56	19.0
58	20.0	58	20.0
60	20.0	60	20.0
62	20.0	62	20.0
70	20.0	70	20.0
72	20.0	72	20.0
74	19.0	74	19.0
76	18.0	76	18.0
78	18.0	78	18.0
80	19.0	80	19.0
82	20.0	82	20.0
84	20.0	84	20.0
86	20.0	86	20.0
94	20.0	94	20.0
96	20.0	96	20.0

^{*}Measured relative to the top of the well casing.

SECTION F-3 VACUUM DATA TABLE WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 APRIL 25-29, 2016

Well #	MW-1	Well #	MW-2R	Well#	MW-8
Elapsed	Vacuum (in	Elapsed	Vacuum (in	Elapsed	Vacuum (in
Time	H2O)	Time	H2O)	Time	H2O)
0	0.8	0	0.0	0	0.0
0.5	2.3	0.5	0.1	0.5	0.0
1	3.4	1	0.1	1	0.0
1.5	3.9	1.5	0.1	1.5	0.0
2	4.1	2	0.1	2	0.0
2.5	4.1	2.5	0.2	2.5	0.0
3	4.5	3	0.2	3	0.0
3.5	4.5	3.5	0.2	3.5	0.0
4	4.5	4	0.2	4	0.0
4.5	4.5	4.5	0.2	4.5	0.0
5	4.5	5	0.2	5	0.0
5.5	4.5	5.5	0.2	5.5	0.0
6	4.5	6	0.2	6	0.0
6.5	4.5	6.5	0.2	6.5	0.0
7	4.5	7	0.2	7	0.0
7.5	4.5	7.5	0.2	7.5	0.0
8	4.5	8	0.2	8	0.0
9	4.5	9	0.2	9	0.0
10	4.5	10	0.2	10	0.0
11	4.5	11	0.2	11	0.0
12	4.5	12	0.2	12	0.0
13	4.5	13	0.2	13	0.0
14	4.5	14	0.2	14	0.0
22	4.5	22	0.2	22	0.0
23	4.5	23	0.2	23	0.0
24	4.5	24	0.2	24	0.0
26	4.5	26	0.2	26	0.0
28	4.5	28	0.2	28	0.0
30	4.5	30	0.2	30	0.0
32	4.5	32	0.2	32	0.0
34	4.5	34	0.2	34	0.0
36	4.5	36	0.2	36	0.0
38	4.5	38	0.2	38	0.0
46	4.5	46	0.2	46	0.0
48	4.5	48	0.2	48	0.0
50	4.5	50	0.2	50	0.0
52	4.5	52	0.2	52	0.0
54	4.5	54	0.2	54	0.0
56	4.5	56	0.2	56	0.0
58	4.5	58	0.2	58	0.0
60	4.5	60	0.2	60	0.0
62	4.5	62	0.2	62	0.0
70	4.5	70	0.2	70	0.0
70	4.5	70	0.2	70	0.0
74	4.5	74	0.2	74	0.0
76	4.5	76	0.2	76	0.0
78	4.5	78	0.2	78	0.0
80	4.5	80	0.2	80	0.0
82	4.5	82	0.2	82	0.0
84	4.5	84	0.2	84	0.0
86	4.5	86	0.2	86	0.0
94	4.5	94	0.2	94	0.0
96	4.5	96	0.2	96	0.0

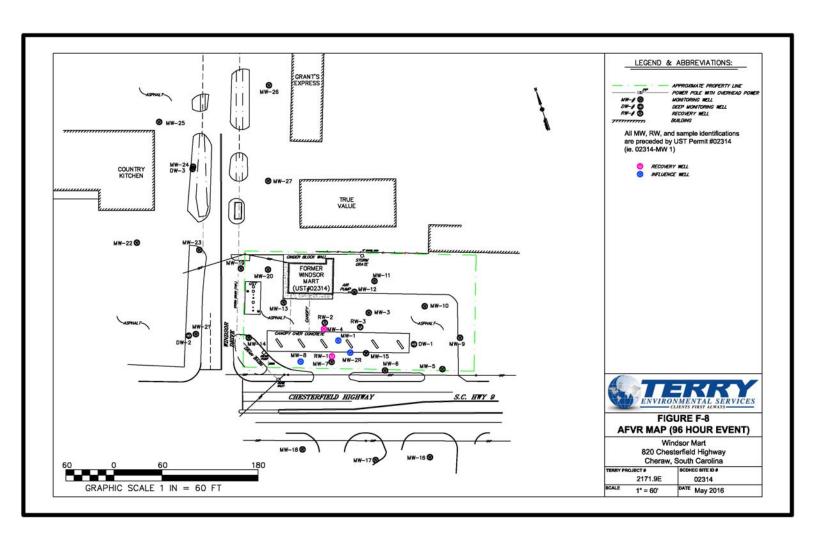
SECTION F-7 FREE PRODUCT THICKNESS TABLE WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 APRIL 25-29, 2016

Well #	1	Depth to Product	Depth to Water	Product Thickness
MW-4	Initial	15.50	15.57	0.07
101 00 -4	Final	n/a	16.02	n/a
RW-1	Initial	15.92	16.17	0.25
KW-1	Final	16.35	16.45	0.10
MW-1	Initial	n/a	15.88	n/a
101 00 - 1	Final	n/a	16.26	n/a
MW-2R	Initial	15.89	15.92	0.03
IVI VV -2IX	Final	16.29	16.33	0.04
MW-8	Initial	n/a	15.96	n/a
171 77 -0	Final	n/a	16.02	n/a

SECTION F-7 FREE PRODUCT THICKNESS TABLE (GAUGING) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

M	A	Y	1	3.	20	1	6

Well #	Depth to Product	Depth to Water	Product Thickness
MW-1	16.47	16.49	0.02
MW-2R	16.52	16.55	0.03
MW-3	14.02	14.03	0.01
MW-4	16.12	16.22	0.10
MW-13	16.50	16.78	0.28
RW-1	16.57	16.73	0.16
RW-2	15.96	16.08	0.12





9. Recovery Water Disposal

The disposal manifest and weigh tickets for the recovery water generated during the April 25-29, 2016 AFVR Event are included in Appendix G.



G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, one 96-hour AFVR event was performed at the subject site. Prior to the April 2016 event, free-phase product was measured in MW-2R (0.03 feet), MW-4 (0.07 feet), and RW-1 (0.25 feet). Upon completion of the event, free-phase product was measured in MW-2R (0.04 feet) and RW-1 (0.10 feet). A total of 58.77 pounds of gasoline vapors (approximate equivalent of 9.40 gallons of gasoline) were recovered as emissions during the events.

On May 13, 2016 approximately fifteen (15) days after the completion of the AFVR Event, a gauging event was performed on MW-1, MW-2R, MW-3, MW-4, MW-13, RW-1, and RW-2 to obtain current data. Free-phase product was measured MW-1 (0.02 feet), MW-2R (0.03 feet), MW-3 (0.01 feet), MW-4 (0.10 feet), MW-13 (0.28 feet), RW-1 (0.16 feet), and RW-2 (0.12 feet). Depth to groundwater was measured between 14 and 17 feet below the top of casing. The Gauging Logs are provided in Appendix B.

The AFVR event was successful at recovering contaminant mass and dewatering the source area. As such, it is recommended to conduct two additional 96-hour AFVR events on the monitoring/recovery well network in the source area.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Potentiometric Data - Not Applicable

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Not Applicable

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

4. Site Potentiometric Maps

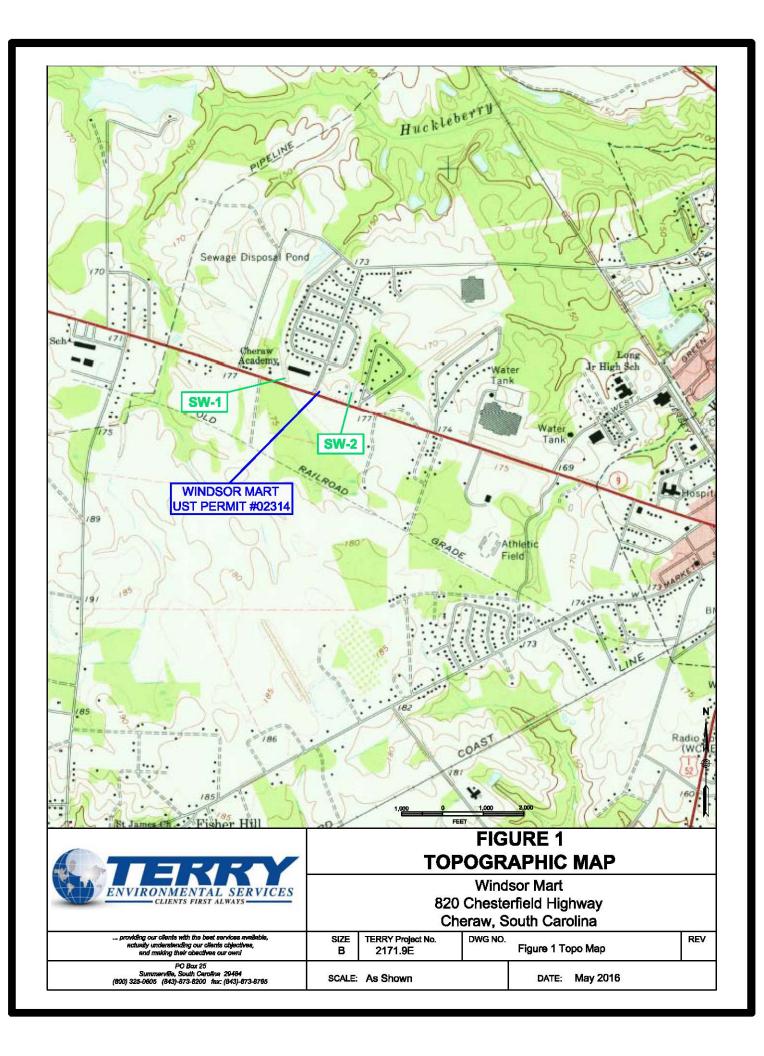
Figure 5 Site Potentiometric Map – Not Applicable

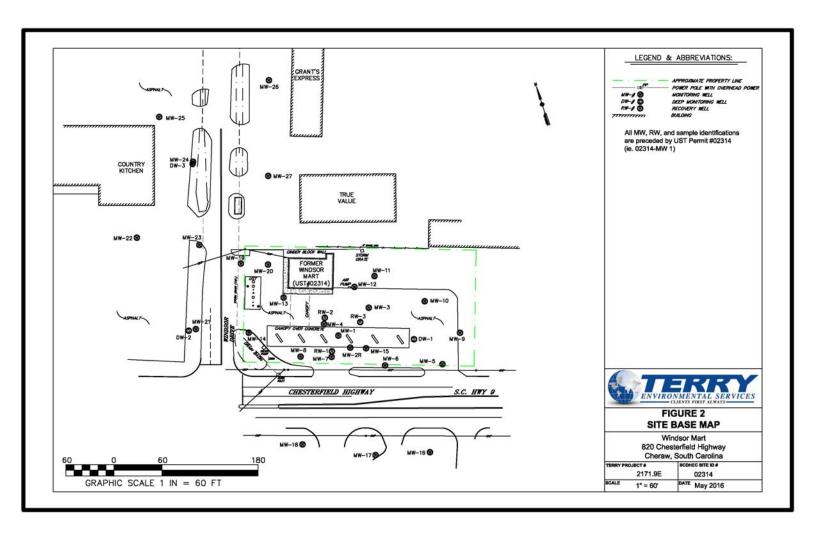
5. Geologic Cross Sections

Figure 6 Geologic Cross Sections - Not Applicable

6. Predicted Migration and Attenuation of CoCs

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable





K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifest
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

TER		vironmental	Service	<u>s</u>				P.O. Box 2: le, SC 29484 00-325-060
	Site Specific	Information		M	onitoring W	Vell Informa		
Terry Proje		2171.9E			Well ID	02314	- MW-1	
SCDHEC Perm		02314				8		
Project		Windsor Mart		Testi	ng Parameters	Gau	ige Well Onl	ly
	Date	5/13 /2016			200			
Field Pers		35			Well Diameter	2 .	in	T1.0
General We	200000000000000000000000000000000000000	Cleur		Scr	eened Interval	10-20	ft	TAG BOTTOM OF
Ambient Air Temper		70°		Total Well Depti		19.8	ft	WELL TO
	Quality A	ssurance		Depth to Groundwater	(nearest 0.01')	16:49	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Mete	Horiba U-52-2	Length of	Water Column	3-31	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Numbe	vwkaumkj	1 Casing V	olume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constan	4.49 mS/cm	3 Casing Vo	lumes (0.489)		gals	NEAREST 0,1'
Calibration Constant	6.86	Calibration Constan	11 53.0 mS/cm	Total V	olume Purged		gals	
Calibration Constant	9.18	Calibration Constan	7.35.000	Purge Technique Utiliz	ed (bailer, pump)		100
Last Calibration (time)		Last Verification √(time	2)	Well Yield	Low	Medium	High \square	19.8
Volume								
Time (mill	itary)							
	I (su)					÷		
Spec Conductivity (m.	S/cm)							
Water Temperature	(°C)							
Turbidity (?								
Dissolved Oxygen (n	0 /							
	Well Condition	Information			Additiona	Comments		
-overall condition accept	able? 105							
-well cap accept	able?			DTP D	TW D	Herence		
-manhole and cover accept	able?			16.47 1		7.0Z		
-well pad accept	able?							
-area	safe? 🗸							
-other com	ments							

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TER	CLIEN	vironmental i	Service	5				P.O. Box 2: le, SC 2948- 00-325-060:
	Site Specific	Information		I M	Ionitoring V	Vell Informa		00-323-000.
Terry Proje	ect ID	2171.9E			Well ID		MW-Z	R
SCDHEC Perm	it No.	02314					1100 -	^
Project 1	Name	Windsor Mart		Testi	ing Parameters	Gau	ge Well Onl	v
	Date	5/13 /2016						,
Field Pers	onnel	35			Well Diameter	Z	in	
General We	eather	Cleur		Sci	reened Interval	10.3-20.3	ft	TAG BOTTOM O
Ambient Air Temper	rature	70		Total Well Dept	h (nearest 0.1')	20.3	ft	WELL TO
	Quality A.	ssurance		Depth to Groundwater	(nearest 0.01')	16.55	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length of	Water Column	3.75	ft	DEPTH,
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing V	olume (0.163)		ft	WRITE BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing V	olumes (0.489)		gals	NEAREST
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total V	olume Purged		gals	0.1'
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utili:	ed (bailer, pum	p)		
Last Calibration (time)		Last Verification √(time)		Well Yield	Low 🗆	Medium 🗆	High	20.3
Volume	(gal)							
Time (mil	itary)							
pH.	I (su)							
Spec Conductivity (m.	,							
Water Temperature								
Turbidity (?								
Dissolved Oxygen (n	0 /							
	Well Condition	Information			Additiona	l Comments		
-overall condition accept	table? Yes							
-well cap accept	table?			DTP 1	DTW) D.	fference		
-manhole and cover accept	table?			16.52 10	5.55 0.	03		
-well pad accept	table?				100			
-area	safe?							
-other com	ments							

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TER		Environmental ENTS FIRST ALWAYS	Service	<u>s</u>						1-8	P.O. Box 2 le, SC 2948 00-325-060
		ic Information			N.	1onitor	ring V	Vell Info	rmati	on	
Terry Proje	(NO-10 INDL)	2171.9E				V	Vell ID	02:	314 -	MW-3	3
SCDHEC Permi	it No.	02314									
Project N	Vame	Windsor Mart			Test	ing Para	meters		Gaug	e Well Onl	у
	Date	5/13 /2016									
Field Perso	onnel	735				Well Die	ameter	2		in	
General Wed		Clear			Sci	reened I	nterval	10-21	0	ft	TAG BOTTOM O
Ambient Air Temper		700		Total	Well Dept	th (neare	est 0.1')	19.9		ft	WELL TO
	Quality	Assurance		Depth to Gr	roundwate	r (neares	t 0.01')	14.0	3	ft	VERIFY WELL
pH Meter	Horiba U-52-	2 Conductivity Meter	Horiba U-52-2		Length of	Water C	olumn	5.8		ft	DEPTH,
Serial Number	VWKAUMK	Serial Number	VWKAUMKJ		1 Casing 1	Volume ((0.163)			ft	WRITE BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm		Casing V					gals	NEAREST
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm			Volume I				gals	0.1'
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techn	ique Utili:	zed (bail	er, pum	p)		0	10.0
Last Calibration (time)		Last Verification √(time)		Well		Low		Medium		High 🗆	19.9
Volume	(gal)					T			\neg		
Time (mili	tary)										
pН	(su)										
Spec Conductivity (mS	(cm)										
Water Temperature	(°C)		_								
Turbidity (N	VTU)										
Dissolved Oxygen (m	ig/L)										
	Well Conditi	ion Information				Add	itiona	l Comme	ents		
-overall condition accept	able? Ves						XXXXXXXXXX				
-well cap accept	able?			3	TPID	TW 1	1 4	evence			
-manhole and cover accept						1.03	0,0				
-well pad accept				7.	177		- 10				
	safe?										
-other comm	-										

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TER	CLIEN	vironmental ,	Service	<u>S</u>				Summervil	P.O. Box 2: le, SC 2948- 00-325-060:
	Site Specific	Information			Λ	Ionitoring V	Vell Informa	tion	
Terry Proje	et ID	2171.9E				Well ID	02314 -		-4
SCDHEC Permi	it No.	02314						······································	
Project N	Name	Windsor Mart			Test	ing Parameters	Gau	ge Well Onl	ly
	Date	5/13 /2016							
Field Perso	onnel	35				Well Diameter	Z	in	
General Wed	ather	Clea7			Sci	reened Interval	10-20	ft	TAG BOTTOM O
Ambient Air Tempere		701		Total	Well Dept	th (nearest 0.1')	19.8	ft	WELLTO
	Quality A:	ssurance		Depth to Gre	oundwate	r (nearest 0.01')	16.22	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	I	ength of	Water Column		ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	J	Casing 1	Volume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3	Casing V	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm		Total V	olume Purged		gals	1 "
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techni	ique Utili	zed (bailer, pum	n)		100
Last Calibration (time)		Last Verification √(time)		Well Y	ield .	Low 🗆	Medium 🗆	High 🗆	19.8
Volume	(gal)								
Time (mili	tary)								
рН	(su)								
Spec Conductivity (mS	(cm)								
Water Temperature	(°C)								
Turbidity (N	VTU)		/						
Dissolved Oxygen (m	ıg/L)								
	Well Condition	ı Information				Additiona	l Comments		
-overall condition accept	able? Yes								
-well cap accepto	able?			D:	TPID	TW/ DG	Frence		
-manhole and cover accept	able?			16,	12 1	6.27/ 6	10		
-well pad accepto	able?				•				
-area	safe?								
-other comn	nents								

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70	CLIEN	vironmental	Services	<u>s</u>				P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information		Ι	Aonitoring V	Vell Informat	ion	
Terry Project I		2171.9E			Well ID	02314 -		3
SCDHEC Permit N	o.	02314						
Project Nan	ne	Windsor Mart		Tes	ting Parameters	Gau	ge Well Onl	ly
Da	te	5713 /2016						
Field Personn	el	35			Well Diameter	2	in	30.70.57.57
General Weath	er	Clew		Se	reened Interval	10.3-20.3	ft	TAG BOTTOM OF
Ambient Air Temperatus		700		Total Well Dep	th (nearest 0.1')	70.3	ft	WELL TO
	Quality A	ssurance		Depth to Groundwate	er (nearest 0.01')	16.78	ft	VERIFY WELL
pH Meter 1	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length of	Water Column	3.52	ft	DEPTH,
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing	Volume (0.163)		ft	WRITE BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing V	'olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total	Volume Purged		gals	0.1
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Util	ized (bailer, pum	p)		
Last Calibration (time)		Last Verification √(time)		Well Yield	Low 🗆	Medium	High \square	20.3
Volume (ga	0							
Time (military	v)							
pH (si	()							
Spec Conductivity (mS/cn	1)							
Water Temperature (°C)							
Turbidity (NTU								//
Dissolved Oxygen (mg/l	/							
W	ell Condition	n Information			Additiona	l Comments		- 101
-overall condition acceptable	? Yes							
-well cap acceptable	?			DTP	DTW)	Difference		
-manhole and cover acceptable	??			16.50	18:78	0,53		
-well pad acceptable	?							
-area safe	? V							
-other commen	ts							

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TER		CLIEN	TS FIRST ALW	VAYS —	Service	<u>s</u>						Summervil	P.O. Box 2 le, SC 2948 00-325-060
		e Specific	Informatio	n			Λ	Monito	ring V	Vell Info	rmat		
Terry Proje	ect ID		21	71.9E					Well ID		314 -		
SCDHEC Perm	it No.		0	2314									
Project	Name		Wind	lsor Mart		1	Test	ting Para	ımeters		Gaug	ge Well Onl	y
	Date			/2016		1					7		
Field Perso	onnel		BS	5				Well Di	ameter	4		in	
General We	ather		Cle	ar			Sc	reened I	nterval	10-30	9	ft	TAG BOTTOM O
Ambient Air Temper	ature		70	0		Tota	Well Dep	th (near	est 0.1')	30.0	2	ft	WELL TO
		Quality A:	ssurance			Depth to G	roundwate	er (neare	st 0.01')	16.7	3	ft	VERIFY WELL
pH Meter	Hor	riba U-52-2	Cond	luctivity Meter	Horiba U-52-2		Length of	Water C	Column	13.2		ft	DEPTH,
Serial Number	VW	/KAUMKJ] .	Serial Number	VWKAUMKJ		1 Casing	Volume	(0.163)			ft	WRITE BELOW TO
Calibration Constant		4.00	Calibro	ation Constant	4.49 mS/cm		Casing V	'olumes	(0.489)			gals	NEAREST 0.1'
Calibration Constant		6.86	Calibro	ation Constant	53.0 mS/cm		Total	Volume I	Purged			gals	0.1
Calibration Constant		9.18		ation Constant	58.7 mS/cm	Purge Tech	nique Utili	ized (bai	ler, pum	p)			7.
Last Calibration (time)			Last Verifi	ication √(time)		Well	Yield	Low		Medium		High \square	30,0
Volume	(gal)												
Time (mili	itary)								A: 1				
pH	l (su)												
Spec Conductivity (mS	S/cm)												
Water Temperature	(°C)				20								
Turbidity (!													
Dissolved Oxygen (n	0 /												
		Condition	Informati	ion				Add	itiona	l Comme	ents		
-overall condition accept	able?	Yes					_						
-well cap accept	table?	1					DTPI	DTU	1/1	diffuser	rce		
-manhole and cover accept	able?					1	6.57	16.73	3	0.16			
-well pad accept	able?												
-area	safe?_	4											
-other com	ments												

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		CLIEN	vironmental TS FIRST ALWAYS	Service	-						ille, SC 2948 800-325-060
		Specific	Information			1	Monitori	ng W	ell Informa	tion	000 000
Terry Proje			2171.9E					ell ID	02314 -		-2
SCDHEC Permi	-		02314								
Project N			Windsor Mart			Tes	ting Paran	neters	Gau	ge Well On	nly
	Date		ST/3/2016						7.27 52.33		
Field Perso			BS				Well Dia	meter	4	in	
General Wed			Clear			Se	creened In	terval	10-30	ft	TAG BOTTOM O
Ambient Air Tempere			75		Total	Well Dep	oth (neares	t 0.1')	30.0	ft	WELL TO
		Quality A.	ssurance		Depth to G	roundwate	er (nearest	0.01')	16.08	ft	VERIFY WELL
pH Meter	Hori	ba U-52-2	Conductivity Meter	Horiba U-52-2			f Water Co		13.42	7 ft	DEPTH,
Serial Number	VW	KAUMKJ	Serial Number	VWKAUMKJ			Volume (0		12:12	ft	WRITE BELOW TO
Calibration Constant		4.00	Calibration Constant	4.49 mS/cm			Volumes (0			gals	NEAREST
Calibration Constant		6.86	Calibration Constant	53.0 mS/cm	Total Volume Purged				gals	0.1'	
Calibration Constant		9.18				nique Util	ized (bailer	, pump)	Smo	
Last Calibration (time)			Last Verification √(time)		Well				Medium	High 🗆	30.0
Volume											
Time (milii	tary)										
pН	(su)										
Spec Conductivity (mS)	(cm)										
Water Temperature	(°C)										
Turbidity (N	TU)										
Dissolved Oxygen (m	0 1										
	Well	Condition	Information				Addit	ional	Comments		
-overall condition accepta	ible? _	Ves									
-well cap accepta	ible?					DI	10/	NT	W/Dib	Ferense	2
-manhole and cover accepta	ible?					15:91	0/	10.0	8/0.1	12	
-well pad accepta	ible? _						/		1		
-area s	afe? _	ild							1		
-other comm	ients										

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifest

Water Recovery

Non-Hazardous Manifest: Waste Water or Drums			Number:				
Generator's EPA IO# (if applicable):			Waste ID Number:				
2. Generator's Name and Mailing Address: TENNY ENVIRONMENTAL WINESEY MENT 2171.9E		Phone (Phone (9/8) 433 6868 PO#:				
3. Agent of Generator and Mailing Address: Tenny Envinonmental PO Bex 25 Summerville SC			Phone (347)873 8260 PO#:				
4. Transporter Company Name: Good Sell Transp 511 Old Mt. Hully RL Truck & Trailer License Number: Goose Chee 5. Transporter U.S. EPA ID#:	k,5C	Phone ()				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	5	Mailing Addre US Water Reco 11 Old Mt. Hol pose Creek, SC	overy ly Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884			
7 Facility U.S. EPA ID#:	T NEWST						
Start Level: End Level;		Total Gallor	TE TO THE TOTAL PROPERTY OF THE TOTAL PROPER	Tank Number			
8. U.S. DOT Description	No.	ontainer Type	Unit	Quantity			
a. Non-Hazardous, non-regulated waste water	101	VT	gals	5,020 gals			
Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and are as represented by the description contained on the Waste Profile Printed/Typed Name: Brian Spillant Signature:	and labeled, the laws of the	and are in all re State of South	spects in proper of Carolina, I further	condition for transport by highway according certify that the contents of this consignment.			
O. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signatury DONALD JONES 1. Discrepancy Indication space:	Norse	u J	one	Date: 4/26/14			
12. Facility Owner or Operator: Certification of Receipt of Materials Signature:	Stand V	100	-22-20	Date att 12.4			

86252681 TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

1130

THE CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight line from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

 Fleimburse you for the cost of the overweight line if our scale is wrong, OR
 A representative of CAT Scale Company will appear in court <u>WITH</u> the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarant for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

4-26-2016

STEER AXLE

11160 1 b

DRIVEAXLE

15680 16

SCALE

LOCATION: 86252681 PUBLIC WEIGHMASTER'S

CERTIFICATE OF WEIGHT & MEASURE 947

TRAILER AXLE TRAVELCENTERS OF AMERICA 195

10580 16

I-95 EXIT 164

* GROSS WEIGHT

37420 16

FLORENCE SC

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly eigned and sealed shall be prima facia evidence of th accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANIGUODSELL TRANSPORT

TRACTOR D3

TRAILER #101

EIGH NUMBER

2681

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICKET #

(IF REWEIGH)

\$10.50

TAMIKA COE

© CAT Stale* Neg

WEIGHMYTRU

WEIG

CUSTOMER COPY

86252689



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY POLBOX 630 WALCOTT IA 52773 (563) 284-5263 www.catscale.com

1411

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAYS

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877 CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguaren

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

4-26-2016

STEER AXLE

16

16

SCALE

86252689 LOCA PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

LOCATION:

IMPRINT SEAL HERE (IF APPLICABLE)

DRIVEAXLE

10920

947

TRAILER AXLE TRAVELCENTERS OF AMERICA 195

33700 16

34620

I-95 EXIT 164

GROSS WEIGHT

79240 1 b

FLORENCE SC

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of accuracy of the weight shown as prescribed by law.

5020guls

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANIGOODSELL TRANSPORT

TRACTOR D3

TRAILER #101

WEIGHMYTRU

WEIG

EIGH NUMBER

2681

FEE

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH

TAMIKA COE

TICKET # 8425

\$2.00

© CAT Boxlet R

CUSTOMER COPY

Water Recovery

Non-Hazardous Manifest: Waste Water o	r Drums	Numb	er:	TOP TO SEE			
1. Generator's EPA ID# (if applicable):	Waste ID No						
2. Generator's Name and Mailling Address: TENNY ENVIRONMENT Windson Mant, Chenaw, SC			Phone (908) 433 6868 PO#: Z171.9E				
)				
Teng Envinonmental PO Box 25 Summerville 5C 4. Transporter Company Name: Goodsell Thansport Phone () 511 DIA Mt Holly RL Truck & Trailer License Number: Goodse Creek SC							
Transporter U.S. EPA ID#;	400			A Section of the section of			
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	51	Mailing Address: Phone: (843) 797-3111 US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445					
7 Facility U.S. EPA IDe:							
Start Level: End Level:		Total Gallor	is:	Tank Number			
8. U.S. DOT Description	No.	ntainer Type	Unit	Quantity			
a. Non-Hazardous, non-regulated waste water	101	VT	Gals	4,910			
Generator's Certification: I hereby declare that the contents of this of above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile.	and labeled, a	nd are in all re State of South	spects in proper of Carolina, I further	condition for transport by highway according certify that the contents of this consignment			
Printed/Typed Name: Brican Spillant Signature: 10. Transporter Acknowledgement of Receipt of Materials	3			Date: 4/27/16			
Printed/Typed Name: Dowald Jones 11. Discrepancy Indication space:	nome	ed y	one	Date: 4/27/16			
12. Facility Owner or Operator: Certification of Receipt of Materials Printed Typed Name: Signature: Signature: White - Facility Yellow - Office	J at l	ık - Transp	oorter B	Date 04/27/264			

86252711 TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (583) 284-6263 www.catscale.com

1152

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

(1) Reimburse you for the cost of the overweight line if our scale is wrong. OR

A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED.

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguaran for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighted on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE

SCALE

4-27-2016

I-95 EXIT 164

FLORENCE SC

STEER AXLE

10900 16

DRIVEAXLE

15580 16

86252711 LOCATION: PUBLIC WEIGHMASTER'S

CERTIFICATE OF WEIGHT & MEASURE 747

TRAVELCENTERS OF AMERICA 195

10660 16

GROSS WEIGHT 37140

16

WEIGHMYTRU

WEIG

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly signed and sealed shall be prime facia evidence of th accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPUGOODSELL TRANSPORT

TRACTOR 3

TRAILER 101

(IF REWEIGH)

IGH NUMBER 7711

FEE \$10.50 WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICKET A

TAMIKA COE

© CAT Scales Reg

CUSTOMER COPY

86252716 TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT IA 52773 (563) 284-6263 www.catscale.com

86252716

1423

THE CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

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DATE:

SCALE

LOCATION:

4-27-2016

STEER AXLE

10900 16

DRIVE AXLE

33740 1 b

TRAVELCENTERS OF AMERICA 195

accuracy of the weight shown as prescribed by law.

33400 lb

I-95 EXIT 164

FLORENCE SC

* GROSS WEIGHT

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

78040 16

IMPRINT SEAL HERE (IF APPLICABLE)

PUBLIC WEIGHMASTER'S CERTIFICATE OF

WEIGHT & MEASURE

40, 900 165

49/0gals

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANSOODSELL TRANSPORT

TRACTOR O

TRALER 101

IGH NUMBER

2711

FEE \$2.00

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICKET # 862527 (IF REWEIGH)

WEIGHMYTRU

WEIG

BARBARA FULLARD

CUSTOMER COPY

© CAY Scale* Rep

Water Recovery

Non-Hazardous Manifest: Waste Water	or Drums	Numb	er:	THE RESERVE	1-3-
1. Generator's EPA ID# (if applicable):			mber:		
2. Generator's Name and Mailing Address: 2171.96 Ticken Oil William Mert, Cherew, SC Persulf # 02314	T. O.	Phone (PO#:)		
3. Agent of Generator and Mailing Address: Terry Environment Po Bx 25 Su	menyk st	Phone (i	2171.1E		
Torry Environment Po Bx 25 Su 4. Transporter Company Name: Condoc! Second Strailer License Number: Gase Cace/s 5. Transporter U.S. EPA ID#:	tyces typkl sc sc 2	Phone (-
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 51	Mailing Addre Water Reco I Old Mt. Holl se Creek, SC	very y Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884	
7 Facility U.S. EPA ID#:			mile of distriction	Maria Control	-14/9
Start Level: End Level:		Total Gallon	S. Hayritale	Tank Number	
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity	
a. Non-Hazardous, non-regulated waste water	101	VT	61	5222	The F
		12 1		and the second s	
		1		Lab.	
			T. Than	RESERVE	
	では、	1000	100000		3/1
# William and Allerta					-74
 Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marke to applicable international and national government regulations and are as represented by the description contained on the Waste Profile 	d and labeled, an the laws of the S	d are in all res	pects in proper of Carolina. I further	condition for transport by high certify that the contents of this	way according a consignment
Printed/Typed Name Bris Spilline Signature	and Nick to the Control of the Control			Date: 4/2	116
19. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: David Kinsham Signature:	1			Date: 4/2	7/16
11, Discrepancy Indication space:		5.194/15 ₍₁₎	1	Section 1	Charles T
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature: Signature:	Varil	- 0	Nm		27-16
White Facility Yellow - Offi	ice Pini	- Transp	orter B	lue - Generator	

84512541

CAT

AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.cstscale.com THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTEB one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

(1) Reimburse you for the cost of the overweight fine if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court <u>WITH</u> the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date

 Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.

 IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guerantee Department.

 The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

4-27-2016

STEER AXLE

11700 16

DRIVE AXLE

13980 16

1007 SCALE 84512541 LOCATION:

PUBLIC WEIGHMASTER'S

CERTIFICATE OF WEIGHT & MEASURE 381

TRAILERAX

TRAILER AXLE 9960 16

PILOT TRAVEL CENTER

I-95 AND I-52 EXIT 164 GAOSS WEIGHT 35640 15

FLORENCE SC

This is to certify that the following described merchandles was weighed, counted, or measured by a public or deputy weighmaater, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

WHITE

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE PROPERTY, COMMODITY OR APTICLE WEIGHED

FREIGHT ALL KINDS

COMPANDOD SELL

File

TRAILER 103

WEIGH NUMBER

FE 10.5

WEIGHMASTER OR WEIGHER SIGNATURE

TICKET # OF REWEIGHT

CUSTOMER COPY

© CAT Socie® Rep 3058 09/15

WEIGHMYTRUCK.COM

WEIGH USING

NOUR

PHONE

84512547



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catacale.com

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the poet of the overweight fine if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Call CAT Scale Company direct 24 hours a day at 1-977-CAT-SCALE, ext. 7 (Toll Free) or visit www.catacaleguerantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

4-27-2016

STEER AXLE

12100 Lb

1244 84512547

SCALE LOCATION:

381

DRIVEAXLE

35840 Lb

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

PILOT TRAVEL CENTER

TRAILER AXLE 31200 16

I-95 AND I-52 EXIT 164 GROSS WEIGHT 79140 FLORENCE SC Lb This is to certify that the following described merchandles was weighted, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

43,500 net = 5,222G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR PRINCIE WEIGHED

FREIGHT ALL KINDS

COMPANY DOD GELL

WEIGH NUMBER 2541

PEF 2.00

WEIGHMANTER WEIGHEN SIGN

FIALWEIGH TICKET # 84512541

OF REWEIGH)

USTOMER COPY

NEIL WHITE

& CAT Scales Reg 2056 07/18

WEIGHMYTRUCK.CO

WEIGH USI

YO

PHON



Non-Hazardous Manifest: Waste Water or D	rums	Numb	er:			
Generator's EPA (D# (if applicable):		Waste ID Number;				
2. Generator's Name and Mailing Address: Temy End, Wikasok Maint 2P19 Chenaw, S			Phone (803) 318 9470 MONTGONUK			
Tenny Envinonmental		Phone (PO#:)			
4. Transporter Company Name: Good Sell Timespool 5/1 DID Mt Holly Rd Truck & Trailer License Number: Goods Creek	t,50	Phone ()			
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	U 51	Mailing Addre S Water Reco 1 Old Mt. Holi ose Creek, SC	very y Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884		
7 Facility U.S. EPA ID#:		TEN YALKING				
Start Level: End Level:		Total Gallon	st.	Tank Number		
8. U.S. DOT Description	The second second	ntainer Type	Unit	Quantity		
a. Non-Hazardous, non-regulated waste water	101	VT	gals	4,405		
Generator's Certification: I hereby declare that the contents of this consignation by proper shipping name and are classified, packed, marked and to applicable international and national government regulations and the later as represented by the description contained on the Waste Profile Form.	labeled, a	nd are in all res State of South	spects in proper c Carolina, I further	sondition for transport by highway according certify that the contents of this consignment		
Printed/Typed Name: Munityped Toppe O. Transporter Admowledgement of Receipt of Materials Printed/Typed Name: Donald Tone 1. Discrepancy Indication space:	my	V-)	Date: 4/2= //14 Date: 4/25/14		
THE RESERVE OF THE PARTY OF THE	AHA		A CONTRACTOR			

86252734 TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT IA 52773 (583) 284-6263 www.catscale.com

1316

86252734

THE CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date

Call CAT Scale Company direct 24 hours a day at 1-877 CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com

IMMEDIATELY sand a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to GAT Scale Company Ann: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DRIVEAXLE

DATE

SCALE

LOCATION:

4-28-2016

STEER AXLE

11460 16

947

TRAVELCENTERS OF AMERICA 195

15840 16

10580

PUBLIC WEIGHMASTER'S CEHTIFICATE OF WEIGHT & MEASURE

I-95 EXIT 164 FLORENCE SC

* GROSS WEIGHT

public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

37880

1 b This is to certify that the following described merchandise was weighed, counted, or measured by a

1 6

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

accuracy of the weight shown as prescribed by law

FREIGHT ALL KINDS

COMPANGOOD SELL

TRACTOR 3

WEIGHMASTER OR WEIGHER BIGNATURE

TRALER 101

IGH NUMBER 734

\$10.50

TAMMIE BONZALEZ

FULL WEIGH TICKET # OF REWEIGH)

CUSTOMER COPY

© CAY Scale® Reg 3055 07/1

WEIGHMYTRUCK (

WEIGH US

PHO

86252740



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (583) 284-6263 www.catscale.com

1550

SCALE

86252740 LOCATION: PUBLIC WEIGHMASTERS CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

IGH NUMBER 734

CUSTOMER COPY

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAYE

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DATE:

4-28-2016

STEER AXLE

11260 1 b

DRIVEAXLE

33400 16

947

TRAVELCENTERS OF AMERICA 195

32080 1 b

I-95 EXIT 164

* GROSS WEIGHT

76740 1 b

FLORENCE SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weightnester, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

38,860 Ths NOT 4645 gols

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANDOD SELL

EQHOTOART

\$2.00

WEIGHMASTER OR WEIGHER SIGNATURE

TRAILER 101

TAMIKA COE

FULL WEIGH TICKET # 86252731; (IF REWEIGH)

© CAT Scale* Rug 9050 07

WEIGHMYTRUCK.C

WEIGH US

YC

PHO

Water Recovery

Non-Hazardous Manifest: Waste Water	or Drums	Numb	er:	A STATE OF THE STA
Generator's EPA ID# (if applicable):		Waste ID Nu	mber;	
Generator's Name and Mailing Address:		Phone (4	303) 316 -	7470
WINHSOR MANH ZATAE		PO#:		migamen!
3. Agent of Generator and Mailing Address:		Discours 1		
topy Environmental No. Box 25 FARMERTINE S	22484	Phone (PO#:)	The second second
Codd Sell Transport		Phone ()	
Truck & Trailer License Number,	and the same	70 A		
5. Transporter U.S. EPA ID#:			70,5	
5. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	U 51	Mailing Addres S Water Reco 1 Old Mt. Holly ose Creek, SC	very Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884
Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons	K A TOTAL TO	Tank Number
3. U.S. DOT Description	No.	ntainer Type	Unit	Quantity
. Non-Hazardous, non-regulated waste water	105	VT	641	5142
				WHERE THE PROPERTY OF THE PROP
Constitution of the second	TOTAL DE		Total Au	The same of the sa
Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marks to applicable international and national government regulations and are as represented by the description contained on the Waste Profile	d and labeled, at the laws of the	nd are in all resp State of South C	pects in proper o Parolina, I further	condition for transport by highway according certify that the contents of this consignment
inted/Typed Name: M. Munryowk TRAK Signature		y automitted to a	nd approved by	Date: 4-27-10
Transporter Acknowledgement of Receipt of Materials inted/Typed Name: Todd brown Signature	True	11 6		Date: 4-29-11
. Discrepancy Indication space:	and the state of t	1	To day on	THE REAL PROPERTY OF THE PARTY
P. Facility Owner or Operator: Certification of Receipt of Materials				

86252749 TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (583) 284-8263 www.catscale.com

813

DATE:

SCALE LOCATION:

86252749 PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

IGH NUMBER 749

CUSTOMER COPY

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we bask up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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DRIVE AXLE

STEERAXLE 4-29-2016

10260 16

15440

FEE

\$10.50

TRAVELCENTERS OF AMERICA 195

12060 1 5

I-95 EXIT 164

FLORENCE SC

* GROSS WEIGHT

37760 16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prime facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANDODSELL TRANSPORT

TRACTOR 05

TRAILER 105

WEIGHMASTER OF WEIGHER SIGNATURE

NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH)

1 b

O CAT Scale* Ring 3005 07/10

WEIGHMYTRUCK.CO

WEIGH USI

YO

PHON

86252750



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO, BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

86252750

PUBLIC WEIGHMASTER'S CERTIFICATE OF

WEIGHT & MEASURE

(IF APPLICABLE)

1112

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.⁰

WEIGH WHAT WE SAY OR WE PAY

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*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

SCALE

LOCATION:

4-29-2016

STEER AXLE

10680 1 b

DRIVE AXLE

35960 16

947

TRAVELCENTERS OF AMERICA 195

33760 16

I-95 EXIT 164

* GROSS WEIGHT

80600 16

FLORENCE SC

This is to certify that the following described marchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly signed and sealed shall be prime facia evidence of the accuracy of the weight shown as prescribed by law.

IMPAINT SEAL HERE

LIVESTOCK, PRODUCE PROPERTY, COMMODITY, OR ARTICLE WEIGHED

42,840 net = 5,142 G

FREIGHT ALL KINDS

COMPANSODDSELL TRANSPORT

TRACTOR OS

TRAILER 105

WEIGHMYTRU

WEIGH

IGH NUMBER

750

\$10.50

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICKET # OF REWEIGHO

CUSTOMER COPY

NICKY CRAWFORD

© CAT Sowieth Trey

Water Recovery

Non-Hazardous Manifest: Waste Water 1. Generator's EPA ID# (if applicable):	or Drums	Numb Waste ID No	The second secon	79.
Generator's Name and Mailing Address:		Phone (1	<u> </u>
Corner Part		riione (1	
Chira SC		PO#:		
3. Agent of Generator and Mailing Address:		Phone ()	A. Carlotte and the second
Summerville SC		PO#:		
4. Transporter Company Name:		Phone (1	
Goodsell Transport		i none (
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:			7	
6. Facility Name and Site Address:		Mailing Addre		Phone: (843) 797-3111
US Water Recovery	US	Water Reco	very	Fax: (843) 797-1884
511 Old Mt. Holly Rd. Goose Creek, SC 29445		1 Old Mt. Holl ise Creek, SC		741. (010) 197-1004
7 Facility U.S. EPA ID#:	7			The state of the s
Start Level: End Level:		400040000		= 2000000
End Daved		Total Gallon	SI.	Tank Number
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and A. Kerillian		1774 728		
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CONTRACTOR OF THE PROPERTY OF	a Tiskus			
 Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and 	d and labeled, an the laws of the S	d are in all resitate of South (pects in prope Carolina. I furth	condition for transport by highway according er certify that the contents of this consignment
are as represented by the description contained on the Waste Profile Printed/Typed Name: Signature:		submitted to a	ind approved b	y the Designated Facility. Date:
				LOGIC.
Transporter Acknowledgement of Receipt of Materials winted/Typed Name: Signature: Signature:	7.6	6~	_	Date: 4-29-16
Discrepancy Indication space:	-			JAMES STREET
2. Facility Owner or Operator: Certification of Receive of Materials		property -		
Facility Owner or Operator: Certification of Receipt of Materials Signature:	16	1 W		Date - // //

86252765



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO BOX 630 WALDOTT IA 52773 (563) 284-6263 www.catacale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.*

WEIGH WHAT WE SAY OR WE PAYO

If you get an overweight line from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will.

(1) Reimburse you for the cost of the overweight line if our scale is wrong. OR
(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date

Call CAT Scale Company direct 24 hours a day at 1-577-CAT-SDALE, ext. 7 (Toll Free) or visit www.cateceleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Atm: Guarantee Department

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

4-29-2016

STEERAXLE

10420 16

1626 SCALE

86252765 LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

947

TRAILER AXLE

DRIVE AXLE

12040 16

15560

TRAVELCENTERS OF AMERICA 195 I-95 EXIT 164

* GROSS WEIGHT

38020 16

FLORENCE SC

This is to certify that the following described merchandles was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANDOD SELL

\$10.50

WEIGHMASTER OR

WEIGHER SIGNATURE

THACTOR 05

TRAILER 105

FULL WEIGH TICKET

16

REWEIGH)

GREGORY RERSO

O CAT Scale* Heg 3055 07/16

WEIGHMYTRUCK.C

WEIGH USE

YO

PHO

IGH NUMBER 765

CUSTOMER COPY

86252766



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (583) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAYS

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong. OR

A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

SCALE

4-29-2016

STEER AXLE

10460 1 b

DRIVE AXLE

26320 16

1849 86252766

LOCATION: PUBLIC WEIGHMASTER'S

CERTIFICATE OF WEIGHT & MEASURE

TRAVELCENTERS OF AMERICA TEST

24220

lb

I-95 EXIT 164

FLORENCE SC

* GROSS WEIGHT

61000

16

IMPRINT SEAL HERE (IF APPLICABLE)

public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law. 22,980 net = 2,7586

This is to certify that the following described merchandise was weighed, counted, or measured by a

LIVESTOCK PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANSOOD SELL

TRACTOR AS

TRAILER 105

IGH NUMBER

2765

\$2.00

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH FICKET # 86252765 OF HEWELDS

GREGORY CPHERSO

(CAT South Reg 3055 07/15

WEIGHMYTRUCK.COM

WEIGH USING

YOU

PHONE

USTOMER COPY

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9E

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,	X		
4	telephone number, and certification number provided?	Λ		
5	Is the name, address, telephone number, and certification number of the well			X
3	driller that installed borings/monitoring wells provided?			Λ
6	Is the name, address, telephone number, and certification number of the certified			X
	laboratory(ies) performing analytical analyses provided?			1
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		Sect 3
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
10	Have the monitoring wells been labeled in accordance with the UST QAPP	v		
19	guidelines?	X		
20	Has the groundwater sampling methodology been detailed?			X
21	Have the groundwater sampling dates and groundwater measurements been			v
21	provided?			X
22	Has the purging methodology been detailed?			X
22	Has the volume of water purged from each well been provided along with			V
23	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
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
20	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk			v
30	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

Item #	Item	Yes	No	N/A
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) - Gauging Logs Only	X		
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



Catherine E. Heigel, Director Promoting and protecting the health of the public and the environment



MR CHARLES JACKSON JACKSON OIL COMPANY INC PO BOX 968 CHESTERFIELD SC 29520-0968

JUN 0 9 2016

Re: **AFVR Directive**

Windsor Mart, 820 Chesterfield Highway, Cheraw, SC UST Permit #02314; CA #52697 Release reported December 6, 1991 AFVR Report received May 17, 2016 Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Terry Environmental Services, Inc. as your contractor. The next appropriate scope of work at the site is to continue aggressive fluid and vapor recovery (AFVR) to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). The AFVR events must be conducted in accordance with the current revision of the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at https://www.scdhec.gov/environment/lw/ust/ReleaseAssessmentClean-up/QualityAssurance/.

Cost Agreement #52697 has been approved in the amount shown on the enclosed cost agreement form for one 96-hour AFVR event to be conducted at the site. The AFVR event should be conducted on MW-4, MW-13, RW-1, and RW-2. The stingers shall be lowered at six inch intervals starting at the water table interface to the estimated historical low water table elevation for each well within the first 8 hours of the event. Thereafter, stingers should be adjusted to maximize FP and/or vapor recovery while maintaining dewatering of the smear zone. Approximately 15 days after conclusion of the AFVR event, all wells historically containing free product and recovery wells should be gauged. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within <u>90</u> days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

The Agency grants pre-approval for transportation of up to 40,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference **UST Permit #02314**. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash, Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc)

Technical File (w/ enc)

Approved Cost Agreement 52697

Facility 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

THRASHAM

PO Number

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB				
	B1 PERSONNEL	1.0000	\$423 000	423 00
10 SAMPLE COLLECTION				
	E1 GAUGE WELL ONLY	7.0000	\$7 000	49.00
19 RPT/PROJECT MNGT & COORDINATIO				
1	PRT REPORT PREPARATION	0.1200	\$32,014 250	3,841 71
23 EFR				
	A4 96 HOUR EVENT	1.0000	\$12,567.500	12,567 50
	C4 OFF GAS TREATMENT 96 HOUR	1 0000	\$780 000	780.00
	D SITE RECONNAISSANCE	1 0000	\$203 250	203 25
	F1 EFFLUENT DISPOSAL	40,000.0000	\$0 440	17,600 00
	G AFVR EQUIPMENT MOB	1 0000	\$391.500	391 50
		Total Am	ount	35.855 96

June 8, 2016 Page 1 of 1 suprcait.rdf Rev: 1.15



X

Re: Follow up - Windsor Mart (Permit #02314)

Thrash, Ashleigh

♠ S Reply | ✓

Tue 6/14/2016 2:52 PM

To: kcone@terryenvironmental.com &

Sent Items

Kelly,

That sounds like a good plan to me. I will complete an addendum so the costs for the 48 hour event on MW13 will be preapproved. Thanks!

Ashleigh

Ashleigh Thrash, Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

Department of Health & Environmental Control

Phone: (803) 898 - 0607

From: Kelly Cone <kcone@terryenvironmental.com>

Sent: Tuesday, June 14, 2016 12:21:57 PM

To: Thrash, Ashleigh

Subject: RE: Follow up - Windsor Mart (Permit #02314)

Ashleigh,

We will proceed with the 96-hour event on RW-1, RW-2 and MW-4. Due to the location MW-13 will need to be addressed independently. I think it would be best to start with a 48-hour event on MW-13 to address the free product. I am fairly confident the tenant will agree to that as a comprise and it will allow us to remove free product from the well and determine the effectiveness of future events if warranted. Please let me know if you would like for us to proceed with the additional 48-hour event on MW-13 under the current directive (CA #52697) as it will require a cost addendum. Thanks, Kelly

Kelly K. Cone, P.G. Vice President

Terry Environmental Services, Inc. P.O. Box 25 Summerville, SC 29484

843-873-8200 phone 843-873-8765 fax



Document Receipt Information

Hard Copy	\swarrow	CD	Emai
Date Received	7/29/20	076	
Permit Number	62314		
Project Manager(ashlugh	Thrash	-
Name of Contractor	Teny E	nvirona	ental
UST Certification Numbe	r.		
Docket Number	24 teel	h	·
Scanned	··· - ·· · · ·		
Description APVR -	+ Gaugia	Event	Report

AGGRESSIVE FLUID VAPOR RECOVERY (AFVR) AND GAUGING EVENTS REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #52697

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9F

KELLY K. CONE, PG Vice President, Assessment Services

KK Con

JASON A. TERRY, PG President

JULY 2016



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company (Contact: Charles Jackson)

Address: 755 South 4th Street, Hartsville, SC 29550

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 Certification: UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Not Applicable

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	

No _ XXXX
n/a
n/a
n/a



7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1,000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. During this scope of work, depth to groundwater was measured between 14 and 17 feet below top of casing in the recovery and influence wells gauged prior to the start of the events.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.

E. GROUNDWATER DATA

Not Applicable. No groundwater samples were collected during this scope of work.



F. AFVR INFORMATION

1. Scope of Work

TERRY was directed by SCDHEC to conduct a 96-hour continuous AFVR Event on monitoring wells MW-4, MW-13, RW-1, and RW-2 concurrently. The SCDHEC Project Manager was contacted in June 2016 to discuss site limitations due to the layout and the distance between the wells requested. The decision was made that a separate 48-hour event would be conducted on MW-13.

Between June 27, 2016 and July 1, 2016 TERRY Environmental Services, Inc. performed one continuous 96-hour AFVR event on MW-4, RW-1, and RW-2 concurrently. Between July 5, 2016 and July 7, 2016 TERRY Environmental Services, Inc. performed one 48-hour AFVR event on MW-13.

2. AFVR Emissions Table

AFVR Emissions Table (Event 1) – Attached

AFVR Emissions Table (Event 2) – Attached

Extraction Well Stinger Depth Table (Event 1) – Attached

Extraction Well Stinger Depth Table (Event 2) – Attached

3. Vacuum Data Table

Vacuum Data Table (Event 1) - Attached

Vacuum Data Table (Event 2) - Attached

4. Volume of Water Recovered

23,008 gallons of fluid were recovered during the 96-hour event conducted June 27, 2016 through July 1, 2016. 8,103 gallons of fluid were recovered during the 48-hour event conducted July 5, 2016 through July 7, 2016. A total of 31,111 gallons of fluid were recovered during the two events. The SCDHEC Project Manager and TERRY personnel expected the high volume of recovery based on previous events on site.

5. Volume of Product Recovered

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

ate:	June :	27 - July	1,2016									Average	Depth to	Gro	undwater:		15-17	ft.	
te Name:	Winds	sor Mart										Describe	Soil in S	atur	ated Zone:		Sandy	Silt	
COHEC Sit	e ID#:		02314									Vacuum	Contract	or:	TERRY E	nvironme	ntal Ser	vices, I	nc.
ell ID#:		4. RW-1.				Blow	er Specifi	cation of	the Vacuu	ım Truck (CF	M @ Hg):								
	DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)							EMISSION CALCULATION											
		Vacuum				Rel.Humid	PPM			Elapsed time	Flow	PPM,	PPM.	K	C	C.	PMR.	PMR.	PMR
Date	Time	(in, Ha)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm²)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/h
6/27/2016	13:00	18.0	918	3	106.0	44.7	1,719	215	87	0	38.33	1884.25	7537.01	4	3760.68	2.348E-04	0.54	0.62	0.10
6/27/2016	13:30	19.0	787	3	118.0	39.8	1,814	221	88	30	32.18	1988.39	7953.54	4	3968.51	2.478E-04	0.48	0.55	0.09
6/27/2016	14:00	20.0	854	3	132.0	46.5	1,613	197	88	60	34.09	1768.06	7072.25	4	3528.78	2.203E-04	0.45	0.52	0.08
6/27/2016	14:30	21.0	995	3	148.0	42.6	1,577	202	87	90	38.68	1728.60	6914,41	4	3450.02	2.154E-04	0.50	0.58	0.09
6/27/2016	15:00	22.0	1,021	3	155.0	41.4	1,261	188	85	120	39.23	1382.22	5528.90	4	2758.71	1.722E-04	0.41	0.47	0.08
6/27/2016	15:30	22.0	1,087	3	156.0	38.5	950	152	84	150	41.70	1041.33	4165.31	4	2078.33	1.297E-04	0.32	0.38	0.0
6/27/2016	16:00	22.0	1,156	3	158.0	35.9	1,101	135	88	180	44.21	1206.84	4827.37	4	2408.67	1.504E-04	0.40	0.46	0.0
6/27/2016	16:30	22.0	1,200	3	158.0	32.6	1,059	150	86	210	45.89	1160.81	4643.22	4	2316.79	1.446E-04	0.40	0.46	0.0
6/27/2016	17:00	22.0	1,221	3	158.0	38.4	814	104	87	240	46.69	892.25	3569.01	4	1780.80	1.112E-04	0.31	0.36	0.00
6/27/2016	17:30	22.0	1,310	3	158.0	39.1	412	65.8	84	270	50.10	451.61	1806.43	4	901.34	5.627E-05	0.17	0.20	0.00
6/27/2016	18:00	22.0	1,342	3	158.0	44.2	362	51.5	86	300	51.32	396.80	1587.20	4	791.95	4,944E-05	0.15	0.18	0.0
6/27/2016	18:30	22.0	1,362	3	158.0	45,3	514	85.1	83	330	52.08	563.41	2253.65	4	1124.48	7.020E-05	0.22	0.25	0.0
6/27/2016	19:00	22.0	1,388	3	158.0	40.1	414	63.4	85	360	53.08	453.80	1815.20	4	905.71	5.654E-05	0.18	0.21	0.0
6/27/2016	19:30	22.0	1,355	3	158.0	36.0	216 381	36.3 50.9	83 87	390	51.82	236.76	947.06	4	472.55 833.52	2.950E-05 5.204E-05	0.09	0.11	0.0
6/27/2016	20:00	22.0	1,321	3		35.7				420				4					
6/27/2016	20:30	22.0	1,315	3	158.0	33.4 32.5	376 244	55.0 38.3	85 84	450 480	50.29	412.15	1648.58	4	822.58	5.135E-05	0.15	0.18	0.0
6/27/2016	21:00	22.0	1,398	3	155.0	32.5 28.3	335	38.3 48.7	84	480 540	53,46 54,14	267.46 367.20	1069.83 1468.82	4	533.80 732.88	3.333E-05 4.575E-05	0.11	0.12	0.0
6/27/2016	23:00	22.0	1,433	3	154.0	32.8	391	51.4	87	600	55.16	428.59	1714.35	4	855.40	5.340E-05	0.15	0.17	0.0
6/28/2016	0:00	22.0	1,433	3	154.0	29.5	366	52.6	86	660	54.93	428.59	1604.74	4	800.70	4.999E-05	0.16	0.19	0.0
5/28/2016	8:00	22.0	1,376	3	151.0	35.2	361	62.9	83	1140	53.22	395.70	1582.82	4	789.76	4.930E-05	0.16	0.18	0.0
5/28/2016	9:00	22.0	1,312	3	152.0	34.7	359	57.3	84	1200	50.66	393.51	1574.05	4	785.39	4.903E-05	0.15	0.17	0.0
5/28/2016	10:00	22.0	1,354	3	152.0	34,1	284	50.4	82	1260	52.29	311.30	1245.21	4	621.31	3.879E-05	0.12	0.14	0.0
5/28/2016	11:00	22.0	1,311	3	153.0	30.6	261	42.2	84	1320	50.54	286.09	1144.36	4	570.99	3.565E-05	0.11	0.13	0.0
6/28/2016	12:00	22.0	1,259	3	155.0	29.1	314	51.3	84	1380	48.38	344.19	1376.74	4	686.94	4.289E-05	0.12	0.14	0.00
5/28/2016	13:00	22.0	1,362	3	158.0	27.5	278	39.0	86	1440	52.08	304.73	1218.90	4	608.18	3.797E-05	0.12	0.14	0.0
5/28/2016	15:00	22.0	1,397	3	158.0	33.2	314	46.8	85	1560	53.42	344.19	1376.74	4	686.94	4.289E-05	0.14	0.16	0.0
5/28/2016	17:00	22.0	1,405	3	158.0	29.5	272	41.3	85	1680	53.73	298.15	1192.59	4	595.06	3.715E-05	0.12	0.14	0.0
6/28/2016	19:00	22.0	1,419	3	158.0	30.3	284	44.6	84	1800	54.26	311.30	1245.21	4	621.31	3.879E-05	0.13	0.15	0.0
6/28/2016	21:00	22.0	1,376	3	158.0	27.9	299	47.1	84	1920	52.62	327.74	1310.98	4	654.13	4.084E-05	0.13	0.15	0.0
6/28/2016	23:00	22.0	1,422	3	158.0	28.0	307	50.0	84	2040	54.38	336.51	1346.05	4	671.63	4.193E-05	0.14	0.16	0.0
6/29/2016	0:00	22.0	1,450	3	158.0	29.2	315	51.8	84	2100	55.45	345.28	1381.13	4	689.13	4.302E-05	0.14	0.17	0.0
6/29/2016	8:00	22.0	1,381	3	158.0	34.5	220	38.7	82	2580	52.81	241.15	964.60	4	481.30	3.005E-05	0.10	0.11	0.0
6/29/2016	10:00	22.0	1,362	3	158.0	36.0	232	39.4	83	2700	52.08	254.30	1017.21	4	507.55	3.169E-05	0.10	0.11	0.0
6/29/2016	12:00	22.0	1,409	3	158.0	27.6	199	37.9	81	2820	53.88	218.13	872.52	4	435.35	2.718E-05	0.09	0.10	0.0
6/29/2016	14:00	22.0	1,437	3	158.0	24.9	272	40.1	85	2940	54.95	298.15	1192.59	4	595.06	3,715E-05	0.12	0.14	0.0
6/29/2016	16:00	22.0	1,319	3	158.0	23.6	331	51.7	84	3060	50.44	362.82	1451.28	4	724.13	4.521E-05	0.14	0.16	0.00
6/29/2016	18:00	22.0	1,405	3	158.0	28.0	312	50.3	84	3180	53.73	341.99	1367.97	4	682.57	4.261E-05	0.14	0.16	0.0
6/29/2016	20:00	22.0	1,366	3	158.0	28,7	291	47.4	84	3300	52.24	318.97	1275.90	4	636.62	3.974E-05	0.12	0.14	0.0
6/29/2016	22:00	22.0	1,393	3	158.0	26.5	302	48,1	84	3420	53.27	331.03	1324.13	4	660.69	4.125E-05	0.13	0.15	0.0
5/30/2016	0:00	22.0	1,474	3	158.0	29.2	309	49.0	84	3540	56.37	338.71	1354.82	4	676.00	4.220E-05	0.14	0.17	0.0
5/30/2016	8:00	22.0	1,505	3	158.0	34,6	211	36.2	83	4020	57,55	231.28	925.14	4	461.61	2.882E-05	0.10	0.12	0.0
5/30/2016	10:00	22.0	1,422	3	158.0	34.9	255	37.5	85	4140	54.38	279.51	1118.06	4	557.87	3,483E-05	0.11	0.13	0.0
5/30/2016	12:00	22.0	1,378	3	158.0	31,6	290	51.7	82	4260	52.70	317.88	1271.51	4	634.44	3.961E-05	0.13	0.14	0.0
5/30/2016	14:00	22.0	1,312	3	158.0	27.2	266	40.9	85	4380	50.17	291.57	1166.29	4	581.93	3.633E-05	0.11	0.13	0.0
5/30/2016	16:00	22.0	1,295	3	158.0	25.8	351	60.6	83	4500	49.52	384,74	1538.97	4	767.89	4.794E-05	0.14	0.16	0.0
30/2016	18:00	22.0	1,345	3	158,0	26.2	389	65.4	83	4620	51.43	426.40	1705.58	4	851.02	5.313E-05	0.16	0.19	0.0
/30/2016	20:00	22.0	1,412	3	158.0	27.7	297	52.8	82	4740	54.00	325.55	1302.21	4	649.75	4.056E-05	0.13	0.15	0.0
30/2016	22:00	22.0	1,427	3	158.0	27.5	284	47.8	83	4860	54.57	311.30	1245.21	4	621.31	3.879E-05	0.13	0.15	0.0
7/1/2016	0:00	22.0	1,416	3	158.0	26.0	300	53.0	82	4980	54.15	328.84	1315.36	4	656.31	4.097E-05	0.13	0.15	0.0
7/1/2016	8:00	22.0	1,422	3	158.0	34.2	265	39.1	85	5460	54,38	290.48	1161.90	4	579.74	3.619E-05	0.12	0.14	0.0
7/1/2016	10:00	22.0	1,408	3	158,0	33.9	244	38.6	84	5580	53.84	267,46	1069.B3	4	533.80	3,333E-05	0.11	0.12	0.0
7/1/2016	12:00	22.0	1,437	3	158.0	30,3	252 260	40.2	84	5700	54.95	276.23	1104.90	4	551.30	3.442E-05	0.11	0.13	0.00
7/1/2016	13:00	22.0	1,386	3	158.0	27.8		42.9	84	5760	53.00	284.99	1139.98	4	568.81	3.551E-05	0.11	0.13	0.00
Average	- 3	21.8 Bwsw:	1323.2	3.0	154.8	32.8	476	70	84		50.86	521.66	2086.63			6.500E-05 on Recover		0.23	19.0

Total Pounds of Carbon Recovered as Emissions: 19.04
Total Pounds of Gasoline Vapor Recovered as Emissions: 22.03
Total Gallions of Gasoline Recovered as Emissions: 3.53
(This Number Represents the Gallions Recovered via Vapors, Not Total Liquids)

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

		-7, 2016										Average	Depth to	Gro	undwater:		14-16		
Site Name:	Wind	sor Mart										Describe	Soil in S	atura	ated Zone:		Sandy	Silt	- 2
SCDHEC SH	te ID #		02314									Vacuum	Contracto	or:	TERRY E	nvironme	ntal Se	rvices,	inc.
Well ID #:	Well ID #: MW-13 Blower Specification of the Vacuum Truck (CFM @ Hg): 282 CFM @ 25" Hg																		
						MINUTE	MINUTE (DSCFM) CALCULATIONS (Qstd)					EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPMpre	PPMpost	Reduction	Elapsed time	Flow	PPM _d	PPM _c	К	C _{cm}	C _o	PMR _c	PMR _a	PMR _q
Date	Time	(in, Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)	7.1(50)			(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
7/5/2016	15:00	21.0	1,028	3	112.0	24.3	260	51.0	80	0	42.47	284.99	1139.98	4	568.81	3.551E-05	0.09	0.10	0.02
7/5/2016	15:30	21.0	1,032	3	127.0	24.3	267	47.0	82	30	41.55	292.67	1170.67	4	584.12	3.647E-05	0.09	0.11	0.02
7/5/2016	16:00	21.0	1,029	3	148.0	24.3	271	41.0	85	60	40.00	297.05	1188.21	4	592.87	3.701E-05	0.09	0.10	0.02
7/5/2016	16:30	21.0	1,063	3	151.0	26.8	239	32.0	87	90	41.12	261.98	1047.90	4	522.86	3.264E-05	0.08	0.09	0.01
7/5/2016	17:00	21.0	1,042	3	153.0	25.2	216	29.0	87	120	40.17	236.76	947.06	4	472.55	2.950E-05	0.07	0.08	0.01
7/5/2016	17:30	21.0	1,052	3	155.0	25.3	150	24.0	84	150	40.43	164.42	657.68	4	328.16	2.049E-05	0.05	0.06	0.01
7/5/2016	18:00	21.0	1,037	3	156.0	25.5	320	59.0	82	180	39.78	350.76	1403.05	4	700.07	4.371E-05	0.10	0.12	0.02
7/5/2016	18:30	21.0	1,054	3	158.0	25.7	365	61.0	83	210	40.31	400.09	1600.35	4	798.52	4.985E-05	0.12	0.14	0.02
7/5/2016	19:00	21.0	1,107	3	158.0	24.9	314	59.0	81	240	42.33	344.19	1376.74	4	686.94	4.289E-05	0.11	0.13	0.02
7/5/2016	19:30	21.0	1,079	3	158.0	24.5	287	50.0	83	270	41.26	314.59	1258.36	4	627.87	3.920E-05	0.10	0.11	0.02
7/5/2016	20:00	20.0	1,034	3	158.0	24.2	295	52.0	82	300	39.54	323.36	1293.44	4	645.38	4.029E-05	0.10	0.11	0.02
7/5/2016	20:30	20.0	1,115	3	158.0	23.1	281	51.0	82	330	42.64	308.01	1232.05	4	614.75	3.838E-05	0.10	0.11	0.02
7/5/2016	21:00	20.0	1,106	3	158.0	23.8	277	49.0	82	360	42.29	303.63	1214.52	4	606.00	3.783E-05	0.10	0.11	0.02
7/5/2016	21:30	21.0	1,121	3	158.0	25.4	303	53.0	83	390	42.87	332.13	1328,51	4	662.88	4.138E-05	0.11	0.12	0.02
7/5/2016	22:00	20.0	1,125	3	158.0	26.3	310	54.0	83	420	43.02	339.80	1359.21	4	678.19	4.234E-05	0.11	0.13	0.02
7/5/2016	22:30	20.0	1,097	3	158.0	26.9	319	55.0	83	450	41.95	349.67	1398.67	4	697.88	4.357E-05	0.11	0.13	0.02
7/5/2016	23:00	20.0	1,092	3	158.0	27.1	311	54.0	83	480	41.76	340.90	1363.59	4	680.38	4.248E-05	0.11	0.12	0.02
7/6/2016	0:00	20.0	1,086	3	158.0	27.0	300	52.0	83	540	41.53	328.84	1315.36	4	656.31	4.097E-05	0.10	0.12	0.02
7/6/2016	8:00	20.0	1,069	3	158.0	27.2	330	55.0	83	1020	40.88	361.72	1446.90	4	721.95	4.507E-05	0.11	0.13	0.02
7/6/2016	9:00	21.0	1,053	3	158.0	27.1	327	52.0	84	1080	40.27	358.44	1433.74	4	715.38	4.466E-05	0.11	0.12	0.02
7/6/2016	10:00	21.0	1,045	3	158.0	27.0	315	53.0	83	1140	39.96	345.28	1381.13	4	689.13	4.302E-05	0.10	0.12	0.02
7/6/2016	11:00	21.0	1,051	3	158.0	27.3	320	58.0	82	1200	40.19	350.76	1403.05	4	700.07	4.371E-05	0.11	0.12	0.02
7/6/2016	12:00	20.0	1,072	3	158.0	27.1	309	54.0	83	1260	40.99	338.71	1354.82	4	676.00	4.220E-05	0.10	0.12	0.02
7/6/2016	13:00	20.0	1,024	3	158.0	25.7	350	60.0	83	1320	39.16	383.65	1534.59	4	765.70	4.780E-05	0.11	0.13	0.02
7/6/2016	14:00	20.0	1,036	3	158.0	25.9	335	52.0	84	1380	39.62	367.20	1468.82	4	732.88	4.575E-05	0.11	0.13	0.02
7/6/2016	15:00	20.0	1,056	3	158.0	27.0	317	54.0	83	1440	40.38	347.47	1389.90	4	693.51	4.330E-05	0.10	0.12	0.02
7/6/2016	17:00	20.0	1,026	3	158.0 158.0	26.8	321 347	57.0 59.0	82	1560 1680	39.24 40.04	351.86	1407.44	4	702.26	4.384E-05	0.10	0.12	0.02
7/6/2016	19:00	20.0	1,047	3	158.0	27.2	347		83 83			380.36	1521.43	4	759.14	4.739E-05	0.11	0.13	0.02
7/6/2016	21:00		1,112	3		24.6		63.0		1800	42.52	396.80	1587.20	4	791.95	4.944E-05	0.13	0.15	0.02
7/6/2016	23:00	20.0	1,127	3	158.0	26.5	313	57.0	82	1920	43.10	343.09	1372.36 1056.67	4	684.75	4.275E-05 3.292E-05	0.11	0.13	0.02
7/7/2016	0:00		1,135	3	158.0	28.2	241	46.0	81	1980	43.40	264.17		4	527.24		0.09	0.10	
7/7/2016	8:00	20.0	1,095	3	158.0	27.1	330	56.0	83	2460	41.87	361.72	1446.90	4	721.95	4.507E-05	0.11	0.13	0.02
7/7/2016	10:00	20.0	1,043	3	158.0	26.9	343	59.0	83 86	2580	39.89	375.97	1503.90	4	750.39	4.685E-05	0.11	0.13	0.02
7/7/2016	12:00	20.0	1,037	3	158.0	26.7	375	54.0	85	2700	39.66	411.05	1644.20	4	820.39	5.122E-05	0.12	0.14	0.02
7/7/2016	14:00	20.0	1,062	3	158.0	27.2	351	51.0		2820	40.61	384.74	1538.97	4	767.89	4.794E-05	0.12	0.14	0.02
7/7/2016	15:00	21.0	1,047	3.0	158.0	27.2 26.0	327 306	49.0 52	85 83	2880	40.04	358.44	1433.74	4	715.38 668.35	4.466E-05 4.172E-05	0.11	0.12	0.02
Average Bws =	0.088			3.0	155.1	26.0	306	52	83	1	41.02	334.87	1339.48	Dau			THE REAL PROPERTY.	Name and Address of the Owner, where the Owner, which is	
BWS =	0.088	Bwsw:	0.06	I.									iotai	rou	nds of Carb	on Recovere	u as Em	IISSIONS:	4.93

Total Pounds of Gasoline Vapor Recovered as Emissions: 5.70
Total Gallons of Gasoline Recovered as Emissions: 0.91
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

AFVR Definitions and Equations

Qstd = (60 sec/min) (1- Bws) (velocity) (Pipe ID sq.ft.) [(528 oR / (Temp. + 460)] (Listed As Flow Above)

 $Bws = (B_{wsw} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)

 $Cc = Ccm (62.43 E - 9 lb - m^3 / mg - ft^3)$

PMRg = (PMRc) (Mg/Mcg)

Bgs = below top of casing

 $Bws = (B_{WSW} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

Qstd = (60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm³, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

 $K_3 = 24.07 \text{ dsm}^3/10^6 \text{ mg-mole}$, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K₃)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE (EVENT 1) WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 JUNE 27 - JULY 1, 2016

Well #	MW-4	Well#	RW-1	Well #	RW-2		
Elapsed	Stinger	Elapsed	Stinger	Elapsed	Stinger		
Time	Depth (ft)*	Time	Depth (ft)*	Time	Depth (ft)*		
0	16.0	0	16.0	0	16.0		
0.5	16.0	0.5	16.0	0.5	16.0		
1	16.0	1	16.0	1	16.0		
1.5	16.5	1.5	16.5	1.5	16.5		
2	16.5	2	16.5	2	16.5		
2.5	17.0	2.5	17.0	2.5	17.0		
3	17.0	3	17.0	3	17.0		
3.5	17.5	3.5	17.5	3.5	17.5		
4	17.5	4	17.5	4	17.5		
4.5	17.5	4.5	17.5	4.5	17.5		
5	18.0	5	18.0	5	18.0		
5.5	18.0	5.5	18.0	5.5	18.0		
6	18.5	6	18.5	6	18.5		
6.5	19.0	6.5	19.0	6.5	19.0		
7	19.5	7	19.5	7	19.5		
7.5	19.5	7.5	19.5	7.5	19.5		
8	20.0	8	20.0	8	20.0		
9	20.0	9	20.0	9	20.0		
10		10		10			
	20.0		20.0		20.0		
11	20.0	11	20.0	11	20.0		
19	20.0	19	20.0	19	20.0		
20	20.0	20	20.0	20	20.0		
21	20.0	21	20.0	21	20.0		
22	18.0	22	18.0	22	18.0		
23	18.0	23	18.0	23	18.0		
24	18.0	24	18.0	24	18.0		
26	18.0	26	18.0	26	18.0		
28	20.0	28	20.0	28	20.0		
30	20.0	30	20.0	30	20.0		
32	18.0	32	18.0	32	18.0		
34	18.0	34	18.0	34	18.0		
35	20.0	35	20.0	35	20.0		
43	20.0	43	20.0	43	20.0		
45	20.0	45	20.0	45	20.0		
47	18.0	47	18.0	47	18.0		
49	18.0	49	18.0	49	18.0		
51	18.0	51	18.0	51	18.0		
53	18.0	53	18.0	53	18.0		
55	20.0	55	20.0	55	20.0		
57	20.0	57	20.0	57	20.0		
59	20.0	59	20.0	59	20.0		
67	20.0	67	20.0	67	20.0		
69	20.0	69	20.0	69	20.0		
71	18.0	71	18.0	71	18.0		
73	18.0	73	18.0	73	18.0		
75	18.0	75	18.0	75	18.0		
77	18.0	77	18.0	77	18.0		
79	20.0	79	20.0	79	20.0		
81	20.0	81	20.0	81	20.0		
83	20.0	83	20.0	83	20.0		
91	20.0	91	20.0	91	20.0		
93	20.0	93	20.0	93	20.0		
95	20.0	95	20.0	95	20.0		
96	20.0 ative to the top of	96	20.0	96	20.0		

^{*}Measured relative to the top of the well casing.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE (EVENT 2) WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 JULY 5-7, 2016

Well#	MW-13
Elapsed Time	Stinger Depth (ft)*
0	14.5
0.5	15.0
1	15.5
1.5	16.0
2	16.5
2.5	17.0
3	17.5
3.5	18.0
4	18.0
4.5	18.0
5	18.0
5.5	18.0
6	16.0
6.5	16.0
7	16.0
7.5	16.0
8	18.0
9	18.0
17	18.0
18	18.0
19	18.0
20	18.0
21	16.0
22	16.0
23	16.0
24	18.0
26	18.0
28	18.0
30	16.0
32	16.0
33	18.0
41	18.0
43	18.0
45	18.0
47	18.0
48	18.0

^{*}Measured relative to the top of the well casing.

SECTION F-3 VACUUM DATA TABLE (EVENT 1) WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 JUNE 27 - JULY 1, 2016

XX7-11 #	1 343	387 4		27 - JULY 1	,	XX7-11 #	I M	W O
Well # Elapsed	Vacuum (in	W-1 Depth to	Well # Elapsed	Vacuum (in	V-2R Depth to	Well # Elapsed		
Time	H2O)	Water (ft.)*	Time	H2O)	Water (ft.)*	Time	H2O)	Depth to Water (ft.)*
0	0.0	16.16	0	0.0	16.20	0	0.0	16.15
0.5	0.5		0.5	0.0		0.5	0.0	
1	0.9		1	0.1		1	0.0	
1.5	1.1	16.40	1.5	0.1	16.20	1.5	0.0	16.00
	1.2	16.49		0.2	16.28		0.0	16.22
2.5	1.4		2.5	0.2		2.5	0.0	
3	1.7		3	0.2		3	0.0	
3.5	1.7	16.54	3.5	0.3	16.22	3.5	0.0	16.21
4	1.7	16.54	4	0.3	16.33	4	0.0	16.31
4.5	1.7		4.5	0.3		4.5	0.0	
5	1.7		5	0.3		5	0.0	
5.5	1.7	16.50	5.5	0.4	16.27	5.5	0.0	16.40
6	1.7	16.52	6	0.4	16.37	6	0.0	16.40
6.5	1.7		6.5	0.2		6.5	0.0	
7	1.7		7	0.2		7	0.0	
7.5	1.7	16.50	7.5	0.2	16.20	7.5	0.0	16.40
8	1.7	16.59	8	0.2	16.39	8	0.0	16.40
9	1.7		9	0.2	16.40	9	0.0	16.40
10	1.7	16.60	10	0.2	16.40	10	0.0	16.40
11	1.7	16.60	11	0.2	16.40	11	0.0	16.40
19	1.7	16.62	19	0.2	16.48	19	0.0	16.44
20	1.7	16.62	20	0.2	16.48	20	0.0	16.44
21	1.7	16.62	21	0.2	16.48	21	0.0	16.44
22	1.7	16.62	22	0.2	16.48	22	0.0	16.44
23	1.7	16.62	23	0.2	16.48	23	0.0	16.44
24	1.7	16.62	24	0.2	16.50	24	0.0	16.46
26	1.7	16.62	26	0.2	16.51	26	0.0	16.47
28	1.7	16.62	28	0.2	16.54	28	0.0	16.50
30	1.7	16.62	30	0.2	16.57	30	0.0	16.50
32	1.7	16.62 16.65	32	0.2	16.57 16.58	32 34	0.0	16.50 16.51
34			34					
35 43	1.7 1.7	16.65 16.68	35 43	0.2	16.60 16.65	35 43	0.0	16.51 16.54
45	1.7	16.67	45	0.2	16.67	45	0.0	16.55
47	1.7	16.68	47	0.2	16.67	47	0.0	16.57
49	1.7	16.68	47	0.2	16.67	47	0.0	16.57
51	1.7	16.70	51	0.2	16.65	51	0.0	16.60
53	1.7	16.70	53	0.2	16.66	53	0.0	16.60
55	1.7	16.70	55	0.2	16.68	55	0.0	16.60
57	1.7	16.71	57	0.2	16.68	57	0.0	16.60
59	1.7	16.72	59	0.2	16.70	59	0.0	16.60
67	1.7	16.72	67	0.2	16.70	67	0.0	16.58
69	1.7	16.76	69	0.2	16.70	69	0.0	16.59
71	1.7	16.76	71	0.2	16.72	71	0.0	16.60
73	1.7	16.77	73	0.2	16.72	73	0.0	16.61
75	1.7	16.77	75	0.2	16.73	75	0.0	16.62
77	1.7	16.77	77	0.2	16.75	77	0.0	16.62
79	1.7	16.78	79	0.2	16.75	79	0.0	16.64
81	1.7	16.79	81	0.2	16.76	81	0.0	16.64
83	1.7	16.80	83	0.2	16.77	83	0.0	16.64
91	1.7	16.84	91	0.2	16.77	91	0.0	16.66
93	1.7	16.84	93	0.2	16.80	93	0.0	16.67
95	1.7	16.85	95	0.2	16.81	95	0.0	16.67
96	1.7	16.86	96	0.2	16.81	96	0.0	16.67
	on of well casi		70	0.2	10.01	70	0.0	10.07

^{*}Relative to top of well casing.

SECTION F-3

VACUUM & POTENTIOMETRIC DATA TABLE (EVENT 2)

WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JULY 5-7, 2016

Well #	MV	W-4	Well #	MV	V-14	Well #	MV	V-20
Elapsed	Vacuum (in	Depth to	Elapsed	Vacuum (in	_	Elapsed	Vacuum (in	_
Time	H2O)	Water (ft.)*	Time	H2O)	Water (ft.)*	Time	H2O)	Water (ft.)*
0	0.0	15.46	0	0.0	15.10	0	0.0	14.21
0.5	0.1		0.5	0.1		0.5	0.3	
1	0.1		1	0.1		1	0.3	
1.5	0.1		1.5	0.1		1.5	0.3	
2	0.1	15.48	2	0.1	15.11	2	0.3	14.24
2.5	0.1		2.5	0.1		2.5	0.3	
3	0.1		3	0.1		3	0.3	
3.5	0.1		3.5	0.1		3.5	0.3	
4	0.1	15.47	4	0.1	15.11	4	0.3	14.22
4.5	0.1		4.5	0.1		4.5	0.3	
5	0.1		5	0.1		5	0.3	
5.5	0.1		5.5	0.1		5.5	0.3	
6	0.1	15.47	6	0.1	15.10	6	0.3	14.21
6.5	0.1		6.5	0.1		6.5	0.3	
7	0.1		7	0.1		7	0.3	
7.5	0.1		7.5	0.1		7.5	0.3	
8	0.1	15.46	8	0.1	15.10	8	0.3	14.21
9	0.1		9	0.1		9	0.3	
17	0.1	15.46	17	0.1	15.10	17	0.3	14.20
18	0.1		18	0.1		18	0.3	
19	0.1	15.42	19	0.1	15.09	19	0.3	14.20
20	0.1		20	0.1		20	0.3	
21	0.1	15.43	21	0.1	15.09	21	0.3	14.20
22	0.1		22	0.1		22	0.3	
23	0.1	15.41	23	0.2	15.04	23	0.3	14.23
24	0.1	15.41	24	0.2	15.04	24	0.3	14.21
26	0.1	15.41	26	0.2	15.04	26	0.3	14.21
28	0.1	15.41	28	0.2	15.10	28	0.3	14.21
30	0.1	15.41	30	0.2	15.10	30	0.3	14.21
32	0.1	15.41	32	0.2	15.10	32	0.3	14.21
33	0.1	15.41	33	0.2	15.10	33	0.3	14.21
41	0.1	15.29	41	0.2	14.97	41	0.3	14.09
43	0.1	15.30	43	0.2	14.98	43	0.3	14.09
45	0.1	15.29	45	0.2	14.93	45	0.3	14.04
47	0.1	15.25	47	0.2	14.90	47	0.3	14.00
48	0.1	15.22	48	0.2	14.90	48	0.3	14.00

^{*}Relative to top of well casing.



6. Mass of Petroleum Recovered as Vapor

22.03 pounds of volatile organic vapors (approximate equivalent of 3.53 gallons of gasoline) were recovered during the course of the 96-hour event conducted June 27, 2016 through July 1, 2016. 5.70 pounds of volatile organic vapors (approximate equivalent of 0.91 gallons of gasoline) were recovered during the course of the 48-hour event conducted July 5, 2016 through July 7, 2016. A total of 27.73 pounds of gasoline vapors (approximate equivalent of 4.44 gallons of gasoline) were recovered as emissions during the two events. Off-gas treatment was provided during the events as directed by the SCDHEC Project Manager.

7. Free Product Thickness Table

Free Product Thickness Table (Event 1) - Attached

Free Product Thickness Table (Event 2) – Attached

Free Product Thickness Table (Gauging) - Attached

8. AFVR Event Map

Figure F-8 AFVR Map (Event 1) – Attached

Figure F-8 AFVR Map (Event 2) - Attached

9. Recovery Water Disposal

The disposal manifests and weigh tickets for the recovery water generated during the June 27-July 1, 2016 and July 5-7, 2016 AFVR Events are included in Appendix G.

SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 1) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JUNE 27 - JULY 1, 2016

Well #	1	Depth to Product	Depth to Water	Product Thickness
MW-4	Initial	15.88	15.98	0.10
IVI VV -4	Final	n/a	19.01	n/a
RW-1	Initial	16.45	16.57	0.12
KW-1	Final	n/a	19.65	n/a
RW-2	Initial	15.62	15.70	0.08
IX VV -Z	Final	n/a	19.22	n/a
MW-1	Initial	n/a	16.16	n/a
171 77 -1	Final	n/a	16.86	n/a
MW-2R	Initial	n/a	16.20	n/a
WIW-ZK	Final	n/a	16.81	n/a
MW-8	Initial	n/a	16.15	n/a
141 44 -0	Final	n/a	16.67	n/a

SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 2) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

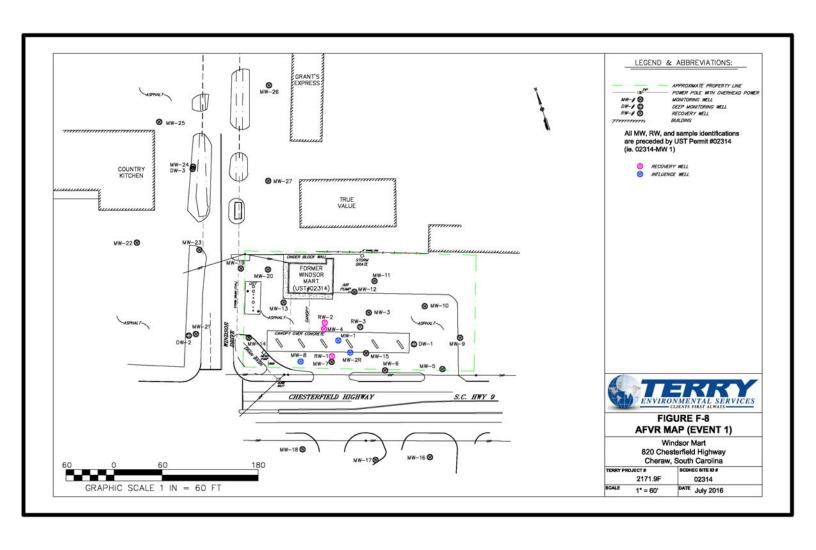
-	 T 7		201	-
	. V	5-7	. 20 1	6
_		J-1	- 40	

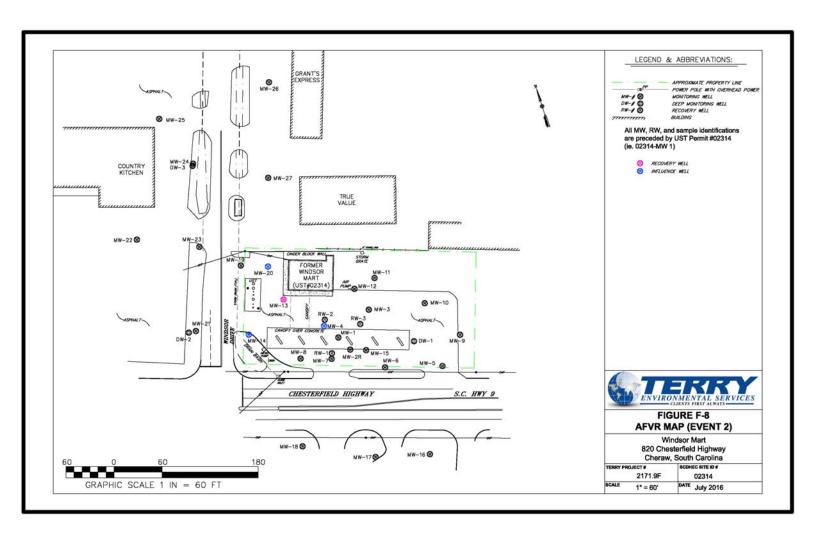
Well#	1	Depth to Product	Depth to Water	Product Thickness
MW-13	Initial	14.89	15.03	0.14
WIW-13	Final	n/a	15.21	n/a
MW-4	Initial	n/a	15.46	n/a
101 00 -4	Final	n/a	15.22	n/a
MW-14	Initial	n/a	15.10	n/a
101 00 - 1 - 4	Final	n/a	14.90	n/a
MW-20	Initial	n/a	14.21	n/a
141 44 -20	Final	n/a	14.00	n/a

SECTION F-7 FREE PRODUCT THICKNESS TABLE (GAUGING) WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JULY 22, 2016

Well #	Depth to Product	Depth to Water	Product Thickness
MW-1	13.42	13.44	0.02
MW-2R		13.49	
MW-3		11.12	
MW-4	12.88	12.92	0.04
MW-13		12.15	
RW-1	13.56	13.75	0.19
RW-2		12.87	







G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, one 96-hour AFVR event and one 48-hour AFVR event were performed at the subject site. Prior to the June 27-July 1, 2016 event, free-phase product was measured in MW-4 (0.10 feet), RW-1 (0.12 feet), and RW-2 (0.08 feet). Upon completion of the event, no free-phase product was measured. Prior to the July 5-7, 2016 event, free-phase product was measured in MW-13 (0.14 feet). Upon completion of the event, no free-phase product was measured. A total of 27.73 pounds of gasoline vapors (approximate equivalent of 4.44 gallons of gasoline) were recovered as emissions during the events.

On July 22, 2016 approximately fifteen (15) days after the completion of the second AFVR Event, a gauging event was performed on MW-1, MW-2R, MW-3, MW-4, MW-13, RW-1, and RW-2 to obtain current data. Free-phase product was measured MW-1 (0.02 feet), MW-4 (0.04 feet), and RW-1 (0.19 feet). Depth to groundwater was measured between 11 and 14 feet below the top of casing. The Gauging Logs are provided in Appendix B.

The AFVR events were successful at recovering contaminant mass, reducing free-phase product thicknesses, and dewatering the source area. TERRY recommends conducting a comprehensive sampling event to monitor the contaminant plume.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Potentiometric Data - Not Applicable

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Not Applicable

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

4. Site Potentiometric Maps

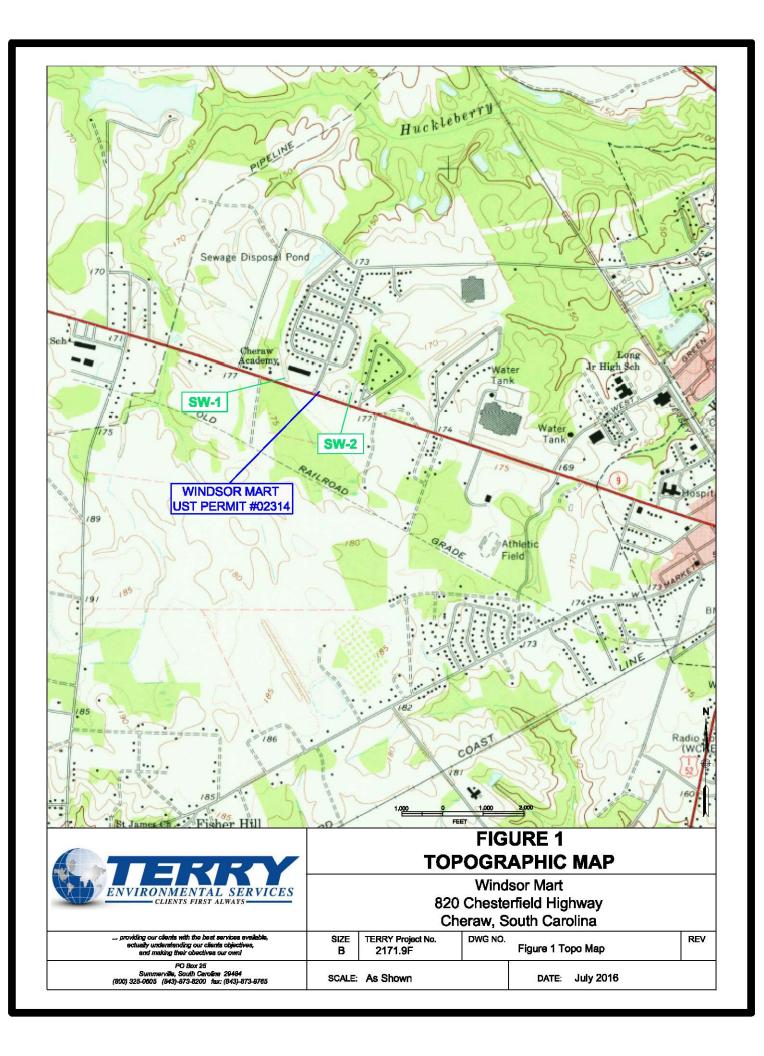
Figure 5 Site Potentiometric Map – Not Applicable

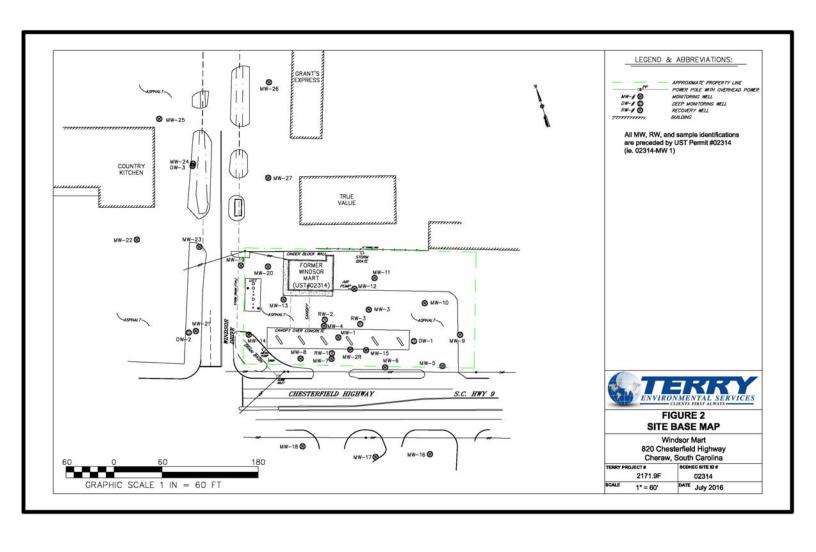
5. Geologic Cross Sections

Figure 6 Geologic Cross Sections - Not Applicable

6. Predicted Migration and Attenuation of CoCs

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable







K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifest
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

Site Specific Information Terry Project ID 2171.9F SCDHEC Permit No. 02314 Project Name Windsor Mart Testing Parameters Gauge Well Only Date 7 / 22/2016 Field Personnel Field Personnel General Weather Ambient Air Temperature Quality Assurance PH Meter Horiba U-52-2 Conductivity Meter Horiba U-52-2 Length of Water Column Remainder Monitoring Well Information Well Information Monitoring Well Information Well Information Monitoring Well Information Well ID O2314 - MW-1 Sauge Well Only Find Parameters Gauge Well Only Total Well Diameter In Total Well Depth (nearest 0.1) Depth to Groundwater (nearest 0.01) ft	SC 29484 325-0605
SCDHEC Permit No. O2314 Well ID O2314 - MW-	323-0003
SCDHEC Permit No. O2314 Windsor Mart Testing Parameters Gauge Well Only	
Date 7 / 22/2016	100
Date 7 / 22/2016	
General Weather Ambient Air Temperature Quality Assurance PH Meter Serial Number Serial Number VWKAUMKJ Serial Number Calibration Constant Calibration (time) Very Technique Utilized (bailer, pump) Last Verification \(\time\) (time) Well Yield Low Medium High Water Temperature (°C) Turbidity (NTU)	
Screened Interval ft	
Ambient Air Temperature Quality Assurance Depth to Groundwater (nearest 0.01) ft	TAG OTTOM OF
PH Meter Horiba U-52-2 Conductivity Meter Horiba U-52-2 Length of Water Column fit Serial Number VWKAUMKJ Serial Number VWKAUMKJ 1 Casing Volume (0.163) fit Calibration Constant 4.00 Calibration Constant Calibration Constant 6.86 Calibration Constant 9.18 Calibration Constant Calibration (time) Last Verification √(time) Volume (gal)	WELL TO
Serial Number VWKAUMKJ Serial Number VWKAUMKJ 1 Casing Volume (0.163) ft Calibration Constant 4.00 Calibration Constant Calibration Constant 6.86 Calibration Constant Calibration Constant P.18 Calibration Constant Calibration Constant Last Verification √(time) Verification √(time) Well Yield Low Medium High Volume (gal) Fine (military) Fine (military) Fine (military) Fine Conductivity (mS/cm) Mater Temperature (°C) Furbidity (NTU)	VERIFY WELL
Serial Number VWKAUMKJ Serial Number VWKAUMKJ 1 Casing Volume (0.163) ft Calibration Constant 4.00 Calibration Constant 4.49 mS/cm 3 Casing Volumes (0.489) gals Calibration Constant 6.86 Calibration Constant 53.0 mS/cm Total Volume Purged gals Calibration Constant Calibration Constant 58.7 mS/cm Purge Technique Utilized (bailer, pump) Last Calibration (time) Last Verification √(time) Well Yield Low Medium High □ Volume (gal) Time (military)	DEPTH,
Calibration Constant 6.86 Calibration Constant 53.0 mS/cm Total Volume Purged gals Calibration Constant 9.18 Calibration Constant 58.7 mS/cm Purge Technique Utilized (bailer, pump) Last Calibration (time) Well Yield Low Medium High □ Volume (gal) Time (military) □ Image: Conductivity (mS/cm) Image: Con	WRITE ELOW TO
Calibration Constant Last Calibration (time) Seconductivity (mS/cm) Calibration Constant Last Verification \(\text{(time)}\) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU)	NEAREST 0.1'
Last Calibration (time) Last Verification \lor (time) Well Yield Low Medium High Volume (gal) Time (military) pH (su) \lor \lor \lor \lor \lor \lor \lor \lor \lor \lor	0.1
Volume (gal) Time (military) pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU)	
Time (military) pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU)	
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU)	
Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU)	
Water Temperature (°C) Turbidity (NTU)	
Water Temperature (°C) Turbidity (NTU)	
Dissolved Oxygen (mg/L)	
Well Condition Information Additional Comments	
-overall condition acceptable?	
-well cap acceptable? DTP DTW Thickness of Product TN	D
-manhole and cover acceptable? 13.42 13.44 0.02 20.	
-well pad acceptable?	
-area safe?	

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I ER		tvironmental	Service	<u>s</u>						Summ	nervill	P.O. Box 2 le, SC 2948
	Site Specific	Information		Monitoring Well Information							00-325-060	
Terry Projec		2171.9F		Well ID 02314 - M						28		
SCDHEC Permit	No.	02314							1700 ZK			
Project N	ame	Windsor Mart		1	Testin	g Parame	ters	Gauge Well Onl			Onl	v
	Date	7/22/2016				8			Ouu	50 11011	OIII,	,
Field Person	nnel	L. Plumb			,	Vell Diam	eter	in				
General Wea	ther	Clear		Screened Interval					•	ft	TAG BOTTOM O	
Ambient Air Tempera	ture	90.		Total V	Vell Depth			19.8		ft		WELL TO
	Quality A	ssurance	5	Depth to Gro	undwater	(nearest 0.	01')			ft	_	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	L	ength of V	Vater Colu	mn			ft		DEPTH,
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		Casing Vo					ft	_	WRITE BELOW TO
Calibration Constant 4.00 Calibration		Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)					gals		NEAREST	
			53.0 mS/cm	Total Volume Purged Purge Technique Utilized (bailer, pump)						gals		0.1
			58.7 mS/cm									
Last Calibration (time) Last Verification √(time)				Well Yi	ield	Low [Medium		High		
Volume ((gal)											
Time (milit	(ary)											
рН	(su)			1	•	1		+			\neg	
Spec Conductivity (mS/	(cm)		e d	1/0	Jam	ble:		Tree	Di	ody	ct	
Water Temperature	(°C)			(V					1			
Turbidity (N	TU)											
Dissolved Oxygen (m.	g/L)						7					
Well Condition Information					Additio	ona	l Comm	ents			74	
-overall condition acceptable?												
-well cap acceptable?			DTP	DTW	This	kne	ess of	Prog	luct	IT	WD	
-manhole and cover accepta	ible?	H		/	13.49	1.		/			10	7.8
-well pad accepta	ible?											
-area s	safe?									- (

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TEN	CLIEN	ts first always	Service	<u>S</u>					rille, SC 2948 -800-325-060	
	Site Specific	Information		Monitoring Well Information						
Terry Proje	ect ID	2171.9F				Well ID		MW-3	5	
SCDHEC Perm	it No.	02314								
Project	Name	Windsor Mart		1	Testi	uge Well Only				
	Date	7 /22 /2016		1			ange wen omy			
Field Pers	onnel	L. Plumb				Well Diameter		in		
General We	eather	clear				eened Interval		ft	TAG BOTTOM O	
Ambient Air Temper	rature	90		Total	Well Depti	(nearest 0.1')	19.9	ft	WELL TO	
	Quality A	ssurance				(nearest 0.01')	The state of the s	ft	VERIFY WELL	
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water Column		, ft	DEPTH,	
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		1 Casing V	olume (0.163)		ft	WRITE BELOW TO	
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3	Casing Vo	lumes (0.489)		gals	NEAREST	
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Volume Purged				gals	0.1'	
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techn	nique Utiliz	ed (bailer, pum	p)			
Last Calibration (time)		Last Verification √(time)		Well	Yield	Low	Medium	High [П	
Volume	(gal)									
Time (mil	litary)						na na			
pl	H (su)			11						
Spec Conductivity (m.	S/cm)		_			1 .	r 7	7		
Water Temperature	e (°C)			//	0 Sa	mp/e'	Treet	Vodve.	1	
Turbidity (NTU)					/	/			
Dissolved Oxygen (r	ng/L)									
	Well Condition	n Information				Additiona	l Comments			
-overall condition accep	table?									
-well cap accep	table?			DT	PID	TW Th	icknessotp	roduct	DAW	
-manhole and cover accep	table?				- / //	.12			1 19.9	
-well pad accep	table?							/		
-area	safe?						***	_ /		
-other com	-other comments				- 1		1	1		

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TER	CLIEN	nvironmental	Service	<u>S</u>						Summ	nervill	P.O. Box 2 e, SC 2948 00-325-060
	Site Specific	Information		Monitoring Well Information								70-323-000
Terry Proje	ect ID	2171.9F		Well ID 02314 -						-4		
SCDHEC Perm	it No.	02314		227 108 122				1111	/			
Project	Vame	Windsor Mart						ge Well	v			
	Date	7 / 22/2016					January Wenn			*		
Field Perso	onnel	L. Plumb		Well Diameter					in	6		
General We	ather	clear			Sc	reened Ir	nterval			ft		TAG BOTTOM O
Ambient Air Temper	Ambient Air Temperature 90.			Total	Well Dept	th (neare	est 0.1')	20.0		ft	\neg	WELL TO
Quality Assurance			Depth to Gr						ft		VERIFY WELL	
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2		Length of	Water C	olumn			ft		DEPTH,
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ		I Casing	Volume (0.163)			ft		WRITE BELOW TO
Calibration Constant	Calibration Constant 4.00 Calibration Constant 4.49 mS/cm				Casing V	olumes (0.489)			gal	s	NEAREST
Calibration Constant	onstant 6.86 Calibration Constant 53.0 mS/cm				Total 1	Volume F	Purged			gal	s	0.1'
Calibration Constant				Purge Techn	ique Utili	zed (baile	er, pum	p)				
Last Calibration (time)		Last Verification √(time)		Well	Yield	Low		Medium		High		
Volume	(gal)											
Time (mili	itary)										\neg	
pH	(su)			V /								
Spec Conductivity (m.	S/cm)			//	0		_	1	-			
Water Temperature	(°C)			1//	Sa	mpl	e .	tre.	e A	Proc	du	ct
Turbidity (?	NTU)			1		/			1			A STATE OF
Dissolved Oxygen (n											3	5 287
Well Condition Information			Additional Comments									
-overall condition acceptable?			DTP	DI	WI	Thic	messo	FF	rodica	+1-	TWD	
-well cap acceptable?			12.88	1129			0.04				20.0	
-manhole and cover accept					1				1777		1	
-well pad accept	and the second										1	
-area								v				

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TER		TS FIRST ALW	AYS —	Services	5						erville	P.O. Box 25 e, SC 29484 0-325-0605
	Site Specific	Informatio	n			Λ	Aonitoring V	Well Info	rmat			
Terry Projec	ct ID	21	71.9F		Well ID 0231			314 -	MW-	13		
SCDHEC Permit	t No.	0	2314									
Project N	lame	Wind	lsor Mart		1	Test	ing Parameters		Gau	ge Well	Only	,
3	Date	7/2	≥/2016									
Field Perso	nnel	L. PI	umb		Well Diameter					in	\neg	
General Wea	uther	C	lear		Screened Interval					ft	ヿ	TAG BOTTOM OF
Ambient Air Tempera	uture		90.		Tot	tal Well Dep	th (nearest 0.1')	20.1		ft		WELL TO
Quality Assurance				Depth to	Groundwate	er (nearest 0.01')			ft	\neg	VERIFY WELL	
pH Meter	Horiba U-52-2	Conc	luctivity Meter	Horiba U-52-2		Length of	Water Column			ft		DEPTH,
Serial Number	VWKAUMKJ		Serial Number	VWKAUMKJ		1 Casing	Volume (0.163)			ft		WRITE BELOW TO
Calibration Constant 4.00 Calibration Constant 4.49 mS/cm				3 Casing V	olumes (0.489)			gals		NEAREST 0.1'		
Calibration Constant	6.86	Calibra	ation Constant	53.0 mS/cm		Total	Volume Purged			gals	П	0.1
Calibration Constant	9.18	Calibro	ation Constant	58.7 mS/cm	Purge Tec	hnique Util	ized (bailer, pun	ip)			\neg	
Last Calibration (time)		Last Verifi	ication √(time)		We	ll Yield	Low	Medium		High		
Volume	(gal)											
Time (mili	tary)											
pН	(su)				1							
Spec Conductivity (mS	/cm)		$ \leftarrow $			1	1 .			10	1	ĺ
Water Temperature	(°C)					0 591	mple .	Tre	e	Ira	d	UCT
Turbidity (N	(TU)				- (1				5	
Dissolved Oxygen (m	0 /										- 1	
	Well Condition	n Informati	ion				Addition	al Comm	ents			
-overall condition acceptable? DTP DTW Thickness of product						FIND						
-well cap acceptable?						20.1						
-manhole and cover accepte										1		
-well pad accepte	able?									-		
-area												22
-other comp	-area saje:						,					

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TER	RYE	vironmental	Service	<u>s</u>						P.O. Box 25 fille, SC 29484	
	Site Specific	Information		Monitoring Well Information							
Terry Proje		2171.9F						FW I			
SCDHEC Permi	t No.	02314	*	7.6.12			02	511	1-41		
Project N	Name	Windsor Mart		Testing Parameters Gauge				ge Well Or	nlv		
	Date	7 /22/2016					Gauge wen omy			,	
Field Perso	onnel	L. Piumb		I	Vell Diameter			in	T		
General Wea	ather	clear				ened Interval			ft	TAG BOTTOM OF	
Ambient Air Temper	ature	90.		Total W		(nearest 0.1')	29.5		ft	WELL TO	
Quality Assurance			Depth to Grou		A TORREST AND AND ADDRESS AND ADDRESS.	21.2		ft	VERIFY WELL		
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Lei	ngth of W	Vater Column			ft	DEPTH,	
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ			olume (0.163)			ft	WRITE BELOW TO	
Calibration Constant	Calibration Constant 4.00		4.49 mS/cm			lumes (0.489)			gals	NEAREST	
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Volume Purged					gals	0.1'	
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pump)							
Last Calibration (time)		Last Verification √(time)	Well Yie	eld	Low 🗆	Medium		High 🗆			
Volume	(gal)										
Time (mili	tary)										
pН	(su)			1							
Spec Conductivity (mS	(cm)			///		1.	1		n 1	1	
Water Temperature	(°C) ~			(10	Jav	mple.	re	e	Upo di	OUT	
Turbidity (N	VTU)					1	/				
Dissolved Oxygen (n	0 7										
	Well Condition	n Information				Additiona	l Comme	ents			
-overall condition acceptable?											
-well cap accept	able?		DTF	D7	W Thi	chness	040	produc	+ DWD		
-manhole and cover acceptable?				13.56			0119	/		129.5	
-well pad accept	able?									1	
-area	-area safe?				1					/	

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-other comments

TER	CLIE	nvironmental	Services	5						rville	P.O. Box 25 e, SC 29484 0-325-0605		
		: Information		Monitoring Well Information									
Terry Project ID		2171.9F	2171.9F		Well ID								
SCDHEC Permit No.		02314											
Project Name		Windsor Mart			Testing Parameters			Gauge Well Only					
Date		7/22/2016											
Field Perso	onnel	L. Plymb	L. Plumb		Well Diameter				in	\neg	TAG BOTTOM OF		
General We		clear			Screened Interval				ft				
Ambient Air Temper		90		Total Well Depth (nearest 0.1')		29.8		ft	\neg	WELL TO			
	Quality A	Assurance	ssurance		Depth to Groundwater (nearest 0.01')				ft WE ft DEP WR		VERIFY WELL		
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length of Water Column				DEPTH, WRITE					
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing Volume (0.163)				BELOW TO					
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Volumes (0.489)					gals		NEAREST 0.1'		
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Volume Purged					gals				
Calibration Constant	9.18	Calibration Constant		Purge Techi	ip)								
Last Calibration (time)		Last Verification √(time)		Well Yield Low □			Medium		High				
Volume	(gal)												
Time (mili	itary)												
pH	H (su)			1									
Spec Conductivity (mS/cm)				///_	(1 .	1	1		1	1		
Water Temperature (°C)				100	Jam	ple, 1	Vee	2 1	haa	140	ct		
Turbidity (?	VTU)		-			1		,					
Dissolved Oxygen (n	0 /			luive - va									
Well Condition Information			Additional Comments										
-overall condition accept	table?	5								T			
-well cap acceptable?			DTP DTW Thickness of Product TWD										
-manhole and cover acceptable?			1287 29.8										
-well pad acceptable?									4				
-area safe?													
athan agus													

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APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifest

Water Recovery

Non-Hazardous Manifest: Waste Water	or Drums	Num	ber:			
Generator's EPA ID# (if applicable):	Waste ID N	Waste ID Number:				
2. Generator's Name and Mailing Address: Windson Man	T	Phone (()			
220 Chestenfield Hwy Chenaw 5C 3. Agent of Generator and Malling Address:		PO#:				
Agent of Generator and Mailing Address:		Phone (1			
3. Agent of Generator and Mailing Address: Tenny Exulting 1753 N. MAIN ST Summen ville. 4. Transporter Company Name: Gendrell Transport 511 Old Mt Holly Rd Goese (Truck & Trailer License Number:	navmesta vicer , 5 C	PO#:				
4. Transporter Company Name: Geodsell Transport 511 Old M+ Holly Rd Goose (Creek	Phone ()			
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:		-				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	5	Mailing Addr JS Water Rec 11 Old Mt. Hol	overy ly Rd.	Phone: (643) 797-3111 Fax: (643) 797-1884		
7 Facility U.S. EPA ID#	Go	ose Creek, SC	<u>。</u>			
Start Level: End Level:		Total Gallor		CAL PLAN 7683 ST 18.		
		fotal Gallor		Tank Number		
8. U.S. DOT Description	Container Unit		Unit	Quantity		
a. Non-Hazardous, non-regulated waste water	101	UT	gals	4735		
		1.				
 Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and are as represented by the description contained on the Waste Profile 	and labeled, a the laws of the	nd are in all res State of South	spects in proper Carolina, I furthe	condition for transport by highway according		
Printed Ripped Name: A5 Acad Signature: 10. Tylensporter Acknowledgement of Receipt of Materials			and approved by	Date: 6/28//6		
Printed/Typed Name: Signature: Devel Toxes 11. Discrepancy Indication space:	Nonne	U S	me	Date: 4/28/16		
12. Facility Owner or Operator: Certification of Receipt of Materials	- 1	1		the state of the s		
Printed Typed Name: G10 A JUM Ignature:	All	1111	Odi.	1110 Date (a/29/11		
White - Facility Yellow - Office	ce Pin	k - Transp	orter E	Blue - Generator		

90573655

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

1043

SCALE

90573655 LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash @

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will.

(1) Reimburse you for the cost of the overweight line if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED.

Post bond and request a court date

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catacaleguarantee.com

IMMEDIATELY sand a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

6-24-2016

STEER AXLE

11500 16

DRIVEAXLE

15940 16

947 TRAVELCENTERS OF AMERICA 195

10740 16

I-95 EXIT 164 FLORENCE SC

* GROSS WEIGHT

38180 16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

\$10,50

COMPANY GOODSELL TRANSPORT

TRACTOR # 03

THAILER # 101

WEIGH NUMBER 3655

FEE

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICKET #

(IF REWEIGH)

NICKY CRAWFORD

USTOMER COPY

O CAT Scale# Reg 3385 07/15

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE

90573658

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catacale.com

1319

THE CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.0

WEIGH WHAT WE SAY OR WE PAYS

If you get an overweight line from the state AFTER one of our CAT Scales showed a legal weight, we will Immediately check our scale and we will

(1) Reimburse you for the cost of the overweight fine if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn. Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

SCALE

6-28-2016

STEERAXLE

11340 16

DRIVEAXLE

33560 16

947

TRAVELCENTERS OF AMERICA 195

32720 16

I-95 EXIT 164

* GROSS WEIGHT

77620 16

FLORENCE SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and seated shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

90573658 LOCATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF

WEIGHT & MEASURE

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY GOODSELL TRANSPORT

TRACTOR # 03

TRAILER # 101

WEIGH NUMBER

FEE

WEIGHMASTER OR

FULL WEIGH

TICKET # 90573655 (IF REWEIGH)

WEIGHMYTRUCK.COM

WEIGH USING

YOUF

PHONE

3655

WEIGHER SIGNATURE

\$2.00

USTOMER COPY

NICKY CRAWFORD

© CAT Scale* Reg 3055 07/15

Water Recovery

Non-Hazardous Manifest: Waste Water	or Drums	Num	ber:				
, Generator's EPA ID# (if applicable):			Waste ID Number:				
2. Generator's Name and Mailing Address: Windsen Mant. 820 Chesten Field Hwy Chenaw, 5C 3. Agent of Generator and Mailing Address:		Phone P O #;	()				
Cheraw SC							
Agent of Generator and Mailing Address:	4	Phone	()				
1753 N. Main St Summer the SC	es	P O #:	- Conf				
1753 N. Main St Summen ville, SC 4. Transporter Company Name: Goodsell Transporter 511 Old Mt Holly R. Q. Truck & Trailer License Number: Goose Casek SC 5. Transporter U.S. EPA IDa:	ent	Phone	()				
 Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445 	5	Mailing Addr JS Water Rec 11 Old Mt. Ho loose Creek, St	overy lly Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884			
7 Facility U.S. EPA ID#:							
art Level: End Level:		Total Gallo	na:	Tank Number			
8. U.S. DOT Description	No.	ontainer Type	Unit	Quantity			
a. Non-Hazardous, non-regulated waste water	101	UT	gals	4,461			
		The second second					
9. Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marks to applicable international and national government regulations and are as represented by the description contained on the Waste Profit	ed and tabeled, i d the laws of the	and are in all re State of South	espects in prope Carolina. I furth	er condition for transport by highway according ner certify that the contents of this consignment			
Printed/Typed Name: JEAN 1755 KCTT AS ASSIGNATURE 10. Transporter Acknowledgement of Receipt of Materialis O	and the literature of the state	reje	Len.	Date: 6/24/16			
Printed/Typed Name: Signature Downkil Jones	Nonda	Jon	w	Date: 6/29/14			
11. Discrepancy Indication space:	1	1	- I				
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature Signature	· du	M	Idu	W Date 6/20/10			
White - Facility Yellow - Off	ice Pi	nk - Trans	porter	Blue - Generator			

90864404

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-8263 www.catscale.com

> 735 SCALE 90864404 LOCATION:

DATE:

相继

PUBLIC WEIGHMASTERS CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 4382

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

Reimburse you for the cost of the overweight line if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguerantee.com for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantes Department

*The four weights shown below are separate weights. The GRIOSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

STEER AXLE 10960 16 6-30-2016 15740 Ib DRIVE AXLE 893 10640 10 TRAILER AXLE PILOT I 26 EXIT 199 GROSS WEIGHT 37340 10 SUMMERVILLE SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public of deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

03

GOODSELL TRANS COMPANY

TRACTOR #

101 TRAILER #

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE

WEIGHMASTER OF WEIGHER SIGNATURE \$2.00

CHEETARA WILSON

FULL WEIGH TICKET # (IF REWEIGH)

90864382

© CAT Scale* Reg 3055 07/19

USTOMER COPY

90864382

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

> 1716 90864382 LOCATION:

DATE:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 4382

\$10.50

COMPANY

GOODSELL TRANS

WEIGHMASTER OR WEIGHER SIGNATURE

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WOIGHED

MANDY

SE

THACTOR # ANTHONY

WEIGHMYTRUCK.COM

WEIGH USING YOUR

PHONE

WEIGH WHAT WE SAY OR WE PAY®

THE CAT SCALE GUARANTEE

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.0

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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

6-29-2016

PILOT

SUMMERVILLE

I 26 EXIT 199

893

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

> STEER AXLE 11100 16 32380 16 DRIVE AXLE 31020 10 TRAILER AXLE 74500 16 * GROSS WEIGHT

This is to certify that the following described merchandles was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

> 37,160 Notwight 444 gols FREIGHT ALL KINDS

101 TRALER #

FULL WEIGH TICKET # (IF REWEIGH)

© CAT Scale# Reg 306h 07/18

USTOMER COPY

Water Recovery

New Manager Parks of No. 1, Nr. 1								
Non-Hazardous Manifest: Waste Water or Drums			Number:					
Generator's EPA ID# (if applicable):	Waste ID Nun	nber,						
2. Generator's Name and Mailing Address: Wart P# Z	71.9F)					
Cheraw, SC		PO#:						
Agent of Generator and Mailing Address:		Phone ()					
Terry Environmental Ser	vicer	D O #		*				
Terry Environmental Ser P. D. Box 25 Summ	wille,	SC #:						
Transporter Company Name:		Phone (1					
Goodsell Transport	THONG	,						
Truck & Trailer License Number:								
Transporter U.S. EPA ID#:								
6. Facility Name and Site Address:		Mailing Addres	s:	Phone: (843) 797-3111				
US Water Recovery	US	Water Recov	ery	Fax: (843) 797-1884				
511 Old Mt. Holly Rd. Goose Creek, SC 29445		1 Old Mt. Holly se Creek, SC 2		and the same of th				
7 Facility U.S. EPA ID#:								
Start Level: End Level:		Total Gallons		Tank Number				
8. U.S. DOT Description	No. Type Unit		Unit	Quantity				
a. Non-Hazardous, non-regulated waste water	105	VT	Gal	4653				
			NAME OF THE PARTY					
		1 1-1						
			99					
 Generator's Certification: I hereby declare that the contents of this co above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the ere as represented by the description contained on the Waste Profile F 	and labeled, at a laws of the !	nd are in all resp State of South C	sects in proper arolina, I furthe	condition for transport by highway according ar certify that the contents of this consignment is the Designated Facility.				
Printed/Typed Name & Jennings Kest As Asignature			1.	Date: \$6-30-11				
Transporter Acknowledgement of Receipt of Materials	100	wige	pren	Date: #6-30-16				
Printed/Typed Name: Toold Brown Signature:	July	1dik	אולי	Date: 6-30-16				
11. Discrepancy Indication space	00-0	J. Op						
12. Facility Owner or Operator: Certification of Receipt of Materials	- 11		1	Control of the Contro				
Printed/Typed Name: Signature: Si	di	1111	9 XIII	UI Date (0-30-10				
			2 2 2 2 2					



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT IA 52773 (563) 284-6263 www.catscale.com

> 855 86251967

LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGHT & MEASURE

WEIGH NUMBER 1967

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash of

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine it our scale is wrong. OR

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IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The lour weights shown below are separate weights: The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

SCALE

6-30-2016

STEER AXLE

10340

16

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE

947

DRIVE AXLE

15700 16

TRAVELCENTERS OF AMERICA TURE

12040 16

I-95 EXIT 164

FLORENCE SC

* GROSS WEIGHT

SAGAG

16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facta evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSELL TRANSPORT

05

105

COMPANY

FEE

WEIGHER SIGNATURE

\$10.50

WEIGHMASTER OF

TRACTOR #

TRAILER #

FULL WEIGH

TICKET # (IF REVENGH)

NICKY CRAWFORD

6 CAT Stoken Roy 3055 17718

USTOMER COPY



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT IA 52773 (583) 284-6263 www.catscale.com

1151

86251968 LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 1967

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash 6

WEIGH WHAT WE SAY OR WE PAYS

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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Post band and request a court date

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* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

SCALE

PEE.

6-30-2016

STEER AXLE

10460 16

DRIVE AXLE

34020 16

947

TRAVELCENTERS OF AMERICA TOS

I-95 EXIT 164 FLORENCE SC

* GROSS WEIGHT

32360

76840 16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

38,760 net-4,6536

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

WEIGHMASTER OR WEIGHER BIGNATURE

FREIGHT ALL KINDS

\$2.00

05

105

16

GOODSELL TRANSPORT COMPANY

THACTOR #

TRAILER #

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE

PULL WEIGH TICKET # OF REWEIGH)

86251967

NICKY CRAWFORD

© CAT Scalar Fleg 3055 67/15

CUSTOMER COPY



Non-Hazardous Manifest: Waste Water of	or Drums	Numbe	er:	
Generator's EPA ID# (If applicable):		Waste ID Nun	nbert	
Generator's Name and Mailing Address:		Phone ()	1
Corner Cupboard		PO#:		
Chtraw Sc		, O #.		
Agent of Generator and Mailing Address:		Phone ()	
Torry Environmental		P O #:		
Transporter Company Name;		Phone (١	
Goodsell Transport		7 119/14	1	
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:		20001110305 2011000001111111111111111111111111111		
Facility Name and Site Address:	, A	Aailing Addres	est.	Phone: (843) 797-3111
US Water Recovery	US	Water Recov	ery	Fax: (843) 797-1884
511 Old Mt. Holly Rd. Goose Creek, SC 29445		1 Old Mt. Holly se Creek, SC 2		
7 Facility U.S. EPA ID#:				от применяния применяний применяний применяний применяний применяний применяний применяний применяний применян Применяний применяний применяний применяний применяний применяний применяний применяний применяний применяний п
Start Level: End Level:		Total Gallons		Tank Number
		73.00000000		Charles.
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	105	UT	641	7612
	1172			
		1		
Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and particular transfer and particular tra	and labeled, an	d are in all resp state of South Co	ects in proper arolina, I furthe	condition for transport by highway according r certify that the contents of this consignment
are as represented by the description contained on the Wasta Profile Printed/Typed Name: Signature:	Futin previously	SHOMMED TO SI	o approved by	Date:
10. Transporter Acknowledgement of Receipt of Materials				
Printed/Typed Name: Todal Brown Signature:	Ja	110	(m	Date: 7-5-16
11. Discrepancy Indication space:	0			
12. Facility Owner or Operator: Certification of Receipt of Materials	11		01	70-
Signature: Signature: Signature:	PAUL	LO S	TXII	Mu 7-5-16
White - Facility Yellow - Office	e Pint	- Transon	rter F	Blue - Generator



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6283 www.catecale.com

909

SCALE 86252014 LOCATION:

DATE

FEE

\$10.50

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 2014

THE CAT SCALE GUARANTEE The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarentee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will Immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PRIOBLEM RESOLVED:

Post bond and request a court date

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

10560 STEER AXLE 16 7-05-2016 16000 16 DRIVEAXLE 947 12500 16 TRAVELCENTERS OF AMERICA PERS I-95 EXIT 164 37060 * GROSS WEIGHT 16 FLORENCE SC

This is to certify that the following described merchandiss was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prime facia evidence of the accuracy of the weight shown as prescribed by law

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

WEIGHMASTER OR

WEIGHER SIGNATURE

FREIGHT ALL KINDS

GOODSELL TRANSPORT COMPANY

05

105

TRACTOR #

TRALER #

NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH)

USTOMER COPY

© CAT Scale* Flag 3056 67/15

WEIGHMYTRUCK.COM

WEIGH USING

YOUF

PHONE



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO: BOX 630 WALCOTT IA 52773 (563) 284-6263 www.catscale.com

> 1147 SCALE 86252017 LOCATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

MPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 2014

ISTOMER COPY

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAYS

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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DATE

7-05-2016

STEER AXLE

10680 16

DRIVE AXLE

34320 **1** b

947

TRAVELCENTERS OF AMERICA TOS

32460

16

I-95 EXIT 164 FLORENCE SC

* GROSS WEIGHT

77480 16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

38,420 net= 4,6126

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

FER

GOODSELL TRANSPORT

105

COMPANY

TRAILER #

WEIGHMASTER OR WEIGHER SIGNATURE \$2.00

NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH)

86252014

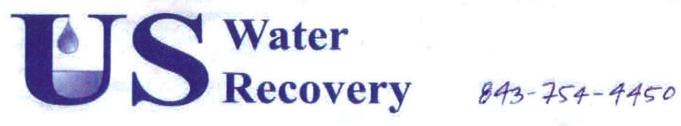
© CAT Scales Heg 1085 97/15

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE



Non-Hazardous Manifest: Waste Wat	er or Drums	Numb	er:		
Generator's EPA ID# (if applicable);		Waste ID No			
Generator's Name and Mailing Address:		Phone ()		• 444
820 Chesterfield Hwy		P O #:			
820 Chester field Havy Cherasa SC 3. Agent of Generator and Mailing Abdress: Terry Em 1753 N. MAIN St Summerville, SC 29483	Sequies	Phone (P O #:)		
4. Transporter Company Name: Good Sell Tynnsport	T	Phone ()		
Truck & Trailer License Number: Goese Creek, SC 5. Transporter U.S. EPA ID#:	294245	•		Para Meri	
Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	U: 51	Mailing Addre S Water Reco 1 Old Mt. Holl se Creek, SC	y Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884	
7 Facility U.S. EPA ID#;	1				
Start Level: End Level:		Total Gallor	15:	Tank Number	
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity	
a. Non-Hazardous, non-regulated waste water	101	VT	gals	4547	
					1
e de	l l				
 Generator's Certification; I have by declare that the contents of above by proper shipping name and are classified, packed, in to applicable international and national government regulations are as represented by the description contained on the Waste R 	arked and labeled, as and the laws of the	nd are in all res State of South	spects in prope Carolina. I furth	r condition for transport by high ser cartify that the contents of thi	way according
Printed/Typed Name: L Yall Plumb Signs	iture: Jwal	PI	den	Date: 7/6/	16
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signa Dipunited Torres 11. Discrepancy Indication space:	turo: Donala	1 Jone		Date: 7/4/	114
200 House Christian 200 House House House		154			
12. Facility Owner or Operator. Certification of Receipt of Materials Printed/Typed Name Signs Signs	ture:	opri	als	HW Date 7/	6/10
White - Facility Yellow - 0	Office Din	k - Transc	ortor	Blue - Generator	

TICKET NUMBER



CERTIFIED **AUTOMATED** TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT IA 52779 (563) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we with

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* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

7-06-2016

STEER AXLE

11080 1 5

DRIVE AXLE

15660 1 15

1010 SCALE LOCATION:

PUBLIC WEIGHMASTERS CERTIFICATE OF WEIGHT & MEASURE

881

TRAILER AXLE

10660 1 to

PILCH TRAVEL CENTER

1-95 AND I-52 EXIT 164 GROSS WEIGHT

37400 1 10

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT

COMPANY TO DESILL TRAMSPORT TRACTOR

TRAILER VOL

WEIGH NUMBER

\$10.50

WEIGHER SIGNATURE

FULL WEIGH TICKET # (IF REWEIGH)

CANDYCE

10 CAT Scale* Reg 3058 97/15

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE!

45 CH

JUSTOMER COPY



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

1328

SCALE

DATE:

86252037 LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEALHERE (IF APPLICABLE)

WEIGH NUMBER 2037

FEE

COMPANY

\$10.50

WEIGHMASTER OR WEIGHER SIGNATURE

GOEDSELL TRANSPORT

NICKY CRAWFORD

FULL WEIGH TICKET # OF REWEIGH)

D OAT Square Heg 3655 97715

THE CAT SCALE GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY

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STEER AXLE

10900 1 to

DRIVE AXLE

32740 10

947

TRAVELLENTERS OF AMERICA TAKE

31640 1 to

I-95 EXIT 180

7-06-2016

FLORENCE SE

' GROSS WEIGHT

75280 16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmester, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

37,880 NET =

LIVESTOCK, PRODUCE PROPERTY, COMMODITY, OR ARTICLE WEIGHED

TRAILER # 101

USTOMER COPY

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE



848-759-4450

Non-Hazardous Manifest: Waste Water of	or Drums	Numb	er:	CALL DEPT. N		
Generator's EPA ID# (if applicable):		Waste ID Nur	nber:			
Generator's Name and Mailing Address:		Phone ()	Ox.		
Corner Cupboard 820 Chesterfield HWY			1			
8 do Chester field HW7	20 20 00	PO#:				
Charaw SC 2171.91	=					
Agent of Generator and Mailing Address:		Phone ()			
Terry Envi		DO#.	-			
		PO#:				
Transporter Company Name:		Dhone /				
Goodsell Transport		Phone ()			
4						
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:						
The state of the s						
6. Facility Name and Site Address:	N	lailing Addres	S:	Phone: (843) 797-3111		
US Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov	ery	Fax: (843) 797-1884		
Goose Creek, SC 29445	5450307	Old Mt. Holly e Creek, SC 2	ATTENDED TO THE PARTY OF	1 00 10 10 100		
7 Facility U.S. EPA ID#:						
			Total Water of			
Start Level: End Level:		Total Gallons	AND TO	Tank Number		
8. U.S. DOT Description	Con	tainer	Unit	Quantity		
	No.	Туре	New Year			
a. Non-Hazardous, non-regulated waste water	105	UT	Gal	4696		
				The second secon		
	-					
				The state of the s		
Generator's Certification; I hereby declare that the contents of this c	Analasmint and	ant Considera	b. deficies a	that and an A.W. and an orbit of the		
above by proper shipping name and are classified, packed, marked	and labeled, an	fare in all resp	ects in proper	condition for transport by highway according		
to applicable international and national government regulations and t	he laws of the S	ate of South C	arolina. I furthi	er certify that the contents of this consignmen		
are as represented by the description contained on the Waste Profile. Printed/Typed Name:	Form previously	submitted to ar	nd approved by			
Lyan Plume	Julya	mer	de	Date: 7-6-16		
Transporter Acknowledgement of Receipt of Materials rinted/Typed Name: Signature:	-	41 / 15		Date: 7		
Todd Brown	Tosler	60		Date: 7-6-16		
Discrepancy Indication space;	The same of the sa		errorest - America III Planalai			
Facility Owner or Operator: Certification of Receipt of Materials	1		- 1			
Printed Typed Name: Signature:	-1	11	. 91/	/ /// Date -		
Sanna boodsu	PILL	MUS	1/1/	WW 170-16		
White - Facility Yellow - Office	Dink	- Transpo	rtor	Blue - Generator		

TICKET NUMBER



CERTIFIED **AUTOMATED** TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

> 1158 SCALE: 10943946CATION:

DATE

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 3788

JUSTOMER COPY

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY"

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

(1) Reimburse you for the cost of the overweight fine if our scale is wrong. OR

A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn. Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEER AXLE 10340 16 7-06-2016 DRIVEAXLE 34540 10 87 32740 16 THAILER AXLE T/A MANNING I 95 EXIT 119 * GROSS WEIGHT 77620 16 MANNING SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and scaled shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

4,6966

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

GOOD SELL TRANSPORT

WEIGHMASTER OR WEIGHER SIGNATURE

PACTOR !

105

305 THAILER # FULL WEIGH

TAKYIA WI HERSPE

(IF REWEIGH)

© CAT Scale? Reg 3059 07/16

WEIGHMYTRUCK.CO

WEIGH USIN

YOU

PHON

86252035 TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

> 849 86252035

LOCATION: PUBLIC WEIGHMASTERS CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 2014

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

(1) Reimburse you for the cost of the overweight line if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catacaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE

SCALE

FEE

\$2.00

7-06-2016

STEER AXLE

10380

10

WEIGHMYTRUCK.CO

WEIGH USIN

YOU

PHON

DRIVE AXLE

15760

1 b

TRAVELCENTERS OF AMERIBANERIAXIE

12360 1 b

1-95 EXIT 164 FLORENCE SC

* GROSS WEIGHT

38500

10

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GDODSELL TRANSPORT

05

105

COMPANY

WEIGHMASTER OR

TRACTOR #

TRAILER #

FULL WEIGH

A5252014

WEIGHER SIGNATURE

NICKY CRAWFORD

TICKET # (IF REWEIGH)

CUSTOMER CORY

G CAT Scale* Reg 3085 87/15



Non-Hazardous Manifest: Waste Water of	r Drums	Numb	er:	
Generator's EPA ID# (if applicable):		Waste ID Nu	mber:	
Generator's Name and Mailing Address:		Phone (<u> </u>	100
820 Chestenfield Hwy		PO#:		
3. Agent of Generator and Mailing Address: Teary Environments 1753 N. Main St.	******	Phone ()	
1753 N. Main St	en atento	PO#:		
Summerville SC				
Summensille SC 4. Transporter Company Name: Goodsell Transport 5/1 Old Mt Holly Rd Truck & Trailer License Number: Goose Credi	7	Phone ()	
Truck & Trailer License Number: Geose Chedi	5c			
5. Transporter U.S. EPA ID#:				
Facility Name and Site Address:		Mailing Addre		Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	51	S Water Reco 1 Old Mt. Hollose Creek, SC	y Rd.	Fax: (843) 797-1884
7. Facility U.S. EPA IDs:			A CONTRACTOR OF THE CONTRACTOR	
Start Level: End Level:		Total Gallon	4 :	Tank Number
8. U.S. DOT Description	Co	ntainer	Unit	Quantity
	No.	Туре		
a. Non-Hazardous, non-regulated waste water	101	UT	gals	3,407 G
				Vest
The City			Tell Property	and the second s
 Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and are as represented by the description contained on the Waste Profile 	f and labeled, a the laws of the	nd are in all ter State of South	spects in proper Carolina, I furthe	condition for transport by highway according r certify that the contents of this consignment
Printed/Typed Name: Signature:		10 E 60 E 60	PARTIES AND AND AND AND AND AND AND AND AND AND	Date:
10. Transporter Acknowledgement of Receipt of Materials	1	0	in the Strephenic	Ku P J
Printed/Typed Name: Signature: Signature:	Nonas	1/0	new	Date: 7/7/14
11. Discrepancy Indication space:		, /	All San	
12. Facility Owner or Operator: Certification of Receipt of Materials	11	/	21	
Flantaci Typed Name: na Good Sell Signature:	All	WE	MILL	Date 7/7/16
White - Facility Yellow - Office	ce Pir	k - Transp	orter I	Blue - Generator



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

> 1633 SCALE 86252066LOCATION:

DATE:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 2066

THE CAT SCALE GUARANTEE The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAYS

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

(1) Reimburse you for the cost of the overweight line if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED.

Post band and request a court date

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

STEER AXLE 11260 16 7-07-2016 DRIVEAXLE 28500 16 947 26540 16 TRAVELCENTERS OF AMERICA 195 I-95 EXIT 164 GROSS WEIGHT 66300 16 FLORENCE SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima tacks evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY GOODSELL TRANSPORT

TRACTOR #

03

TRAILER #

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE

DOKEY # (IF REWEIGH)

PEE \$10.50

WEIGHMASTER OR WEIGHER SIGNATURE

ALAYSHIA

O CAT Scale® Rug 3055 07/15

USTOMER COPY



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catecate.com

1327

SCALE 8625205&LOCATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE IT APPLICABLE

WEIGH NUMBER 2037

USTOMER COPY

THE CAT SCALE GUARANTEE

The CAT Boate Company guaractions that will give an accurate weight. What makes us offered from other some companies in the we have up our quarantee with cash of

WEIGH WHAT HE SAY OR WE PAY

I was get an oververy's line from the case AFTER and of our CAT Scales showed a legal weight, we will WHE CHIEF WINDS AND ADMINIST FRANKLING

(1) Reimburge you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877/CAT-SCALE, ext. 7 (Toll Free) or viait www.catscaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

7-07-2016

STEER AXLE

11480 16

DRIVE AXLE

15780 16

947

TRAVELCENTERS OF AMERICA 195

16 10660

I-95 EXIT 164

FLORENCE SC

* GROSS WEIGHT

37920 16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

\$2.00

FEE

GOODSELL TRANSPORT

WEIGHER SIGNATURE

03

101

WEIGHMYTRUCK.COM

WEIGH USING

YOUR

PHONE

WEIGHMASTER OR

TRALER#

FULL WEIGH (IF REWEIGH)

86252037

NICKY CRAWFORD

© CAY Scale* Reg 3055 07/10

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9F

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,	X		
4	telephone number, and certification number provided?	Λ		
5	Is the name, address, telephone number, and certification number of the well			X
3	driller that installed borings/monitoring wells provided?			Λ
6	Is the name, address, telephone number, and certification number of the certified			X
	laboratory(ies) performing analytical analyses provided?			71
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
10	Have the monitoring wells been labeled in accordance with the UST QAPP	v		
19	guidelines?	X		
20	Has the groundwater sampling methodology been detailed?			X
21	Have the groundwater sampling dates and groundwater measurements been			v
21	provided?			X
22	Has the purging methodology been detailed?			X
22	Has the volume of water purged from each well been provided along with			v
23	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
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
20	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk			v
30	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

Item #	Item	Yes	No	N/A
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) - Gauging Logs Only	X		
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.





AUG 3 0 2018

CHARLES JACKSON
JACKSON OIL CO INC
PO BOX 968
CHESTERFIELD SC 29520-0968

Re. AFVR Directive

Maruti Kundal (Former Windsor Mart), 820 Chesterfield Hwy., Cheraw, SC UST Permit #02314; CA #53141 Release reported December 6, 1991 Aggressive Fluid Vapor Recovery Report received July 29, 2016 Chesterfield County

Dear Mr. Jackson

On behalf of the Department of Health and Environmental Control (DHEC), the Underground Storage Tank (UST) Management Division has reviewed the referenced report and determined an appropriate next work scope. In accordance with Section 280 64 of the South Carolina Underground Storage Tank Control Regulations, one 96-hour Aggressive Fluid and Vapor Recovery (AFVR) event may commence as outlined in this letter and the UST Quality Assurance Program Plan (QAPP) Revision 3.1 A copy of DHEC QAPP Version 3.1 for the UST Division is available at http://www.scdhec.gov/environment/docs/DHEC%20UST%20QAPP Rev-3.1(2).pdf.

Monitoring wells MW-1, MW-4 and RW-1 should be utilized during the event. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 25 feet in each well. Please strive to reach the target depth within the first 8 hours of the event and maintain the stinger at this depth for the duration of the event.

As soon as the beginning date of the event has been scheduled, please contact Read Miner at minerrs@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Page 2

Cost Agreement #53141 has been approved in the amount shown on the enclosed cost agreement. Terry Environmental Services, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

The UST Division grants preapproval for transportation of virgin petroleumcontaminated groundwater from the referenced site to a permitted treatment facility

On all correspondence concerning this site, please reference UST Permit #02314. If you have any questions, please contact me at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner, P.G., Hydrogeologist

Corrective Action Section

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc Approved Cost Agreement

cc: Technical File (with enclosure)

Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (with

enclosure)

Approved Cost Agreement

53141

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

MINERRS

PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT M	NGT & COORDINATIO				
		PRT REPORT PREPARATION	0.1200	\$22,742.250	2,729.07
23 EFR					
		A4 96 HOUR EVENT	1.0000	\$12,567.500	12,567.50
		C4 OFF GAS TREATMENT 96 HOUR	1.0000	\$780.000	780.00
		D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
		F1 EFFLUENT DISPOSAL	20,000.0000	\$0.440	8,800.00
		G AFVR EQUIPMENT MOB	1.0000	\$391.500	391.50
			Total Am	ount	25,471.32

Document Receipt Information

Hard Copy	СБ	Email
Date Received	10-13-16	
Date Received Permit Number Project Manager	ead There	1
Name of Contractor		
Docket Number		Ω/Ω
Scanned		
	AFV	P

AGGRESSIVE FLUID VAPOR RECOVERY (AFVR) EVENT REPORT WINDSOR MART 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #53141

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9G

KELLY K. CONE, PG Vice President, Assessment Services

KK Con

JASON A. TERRY, PG President

OCTOBER 2016



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Windsor Mart (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company (Contact: Charles Jackson)

Address: 755 South 4th Street, Hartsville, SC 29550

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 Certification: UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Not Applicable

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	122

Other Releases at this site? Yes No XXXX

If yes, Date Release Reported to SCDHEC n/a

Status of Release: n/a

No Further Action Date: n/a



7. Regional Geology and Hydrogeology

The Windsor Mart site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)

B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1.000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. During this scope of work, depth to groundwater was measured between 15 and 16 feet below top of casing in the recovery and influence wells gauged prior to the start of the event.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.

E. GROUNDWATER DATA

Not Applicable. No groundwater samples were collected during this scope of work.

F. AFVR INFORMATION

1. Scope of Work

As directed by SCDHEC, a 96-hour continuous AFVR Event was performed on monitoring/recovery wells MW-1, MW-4, and RW-1. The event was conducted between September 26, 2016 and September 30, 2016 by TERRY Environmental Services, Inc.

2. AFVR Emissions Table

AFVR Emissions Table – Attached

Extraction Well Stinger Depth Table - Attached

3. Vacuum Data Table

Vacuum and Potentiometric Data Table - Attached

4. Volume of Water Recovered

A total of 40,243 gallons of fluid were recovered during the 96-hour event conducted September 26, 2016 through September 30, 2016. The SCDHEC Project Manager and TERRY personnel expected the high volume of recovery based on previous events on site. The gallons recovered were calculated based on a conversion of the net weight of the water to gallons; using a weight of 8.33 pounds per gallon. DHEC calculates the gallons recovered based on a weight of 8.34 pounds per gallon. Therefore, the revised total of 40,197 gallons of fluid were recovered.

5. Volume of Product Recovered

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

6. Mass of Petroleum Recovered as Vapor

A total of 25.67 pounds of volatile organic vapors (approximate equivalent of 4.11 gallons of gasoline) were recovered during the course of the 96-hour event conducted September 26, 2016 through September 30, 2016. Offgas treatment was provided during the events as directed by the SCDHEC Project Manager.

7. Free Product Thickness Table

Free Product Thickness Table - Attached

SECTION F-2A AFVR EMISSIONS TABLE WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 Average Depth to Groundwater: Describe Soil in Saturated Zone: dsor Mart STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE | STATE EMISSION CALCULATION

AFVR Definitions and Equations

Qstd = (60 sec/min) (1- Bws) (velocity) (Pipe ID sq.ft.) [(528 oR / (Temp. + 460)] (Listed As Flow Above)

Bws = $(B_{wsw} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)

 $Cc = Ccm (62.43 E - 9 lb-m^3/mg-ft^3)$ PMRg = (PMRc) (Mg/Mcg)

Bgs = below top of casing

Bws = $(B_{WSW} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

Qstd = (60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm³, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K₃ = 24.07 dsm³/10⁶ mg-mole, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K₃)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 SEPTEMBER 26-30, 2016

Well #	MW-1	Well #	MW-4	Well #	RW-1
	Stinger Depth		Stinger Depth	.,,	Stinger Depth
Elapsed Time	(ft)*	Elapsed Time	(ft)*	Elapsed Time	(ft)*
0	15.0	0	15.0	0	15.0
0.5	15.5	0.5	15.5	0.5	15.5
1	16.0	1	16.0	1	16.0
1.5	16.5	1.5	16.5	1.5	16.5
2	17.0	2	17.0	2	17.0
2.5	17.5	2.5	17.5	2.5	17.5
3	18.0	3	18.0	3	18.0
3.5	18.5	3.5	18.5	3.5	18.5
4	19.0	4	19.0	4	19.0
4.5	19.5	4.5	19.5	4.5	19.5
5	20.0	5	20.0	5	20.0
5.5	21.0	5.5	21.0	5.5	21.0
6	22.0	6	22.0	6	22.0
6.5	23.0	6.5	23.0	6.5	23.0
7	24.0	7	24.0	7	24.0
7.5	25.0	7.5	25.0	7.5	25.0
8	25.0	8	25.0	8	25.0
9	25.0	9	25.0	9	25.0
10	25.0	10	25.0	10	25.0
18	25.0	18	25.0	18	25.0
19	25.0	19	25.0	19	25.0
20	25.0	20	25.0	20	25.0
21	25.0	21	25.0	21	25.0
22	25.0	22	25.0	22	25.0
23	25.0	23	25.0	23	25.0
24	25.0	24	25.0	24	25.0
26	25.0	26	25.0	26	25.0
28	23.0	28	23.0	28	23.0
30	23.0	30	23.0	30	23.0
32	23.0	32	23.0	32	23.0
34	25.0	34	25.0	34	25.0
42	25.0	42	25.0	42	25.0
44	25.0	44	25.0	44	25.0
46	25.0	46	25.0	46	25.0
48	25.0	48	25.0	48	25.0
50	25.0	50	25.0	50	25.0
52	25.0	52	25.0	52	25.0
54	25.0	54	25.0	54	25.0
56	25.0	56	25.0	56	25.0
58	23.0	58	23.0	58	23.0
66	23.0	66	23.0	66	23.0
68	23.0	68	23.0	68	23.0
70	25.0	70	25.0	70	25.0
72	25.0	72	25.0	72	25.0
74	25.0	74	25.0	74	25.0
76	25.0	76	25.0	76	25.0
78	25.0	78	25.0	78	25.0
80	25.0	80	25.0	80	25.0
82	25.0	82	25.0	82	25.0
90	25.0	90	25.0	90	25.0
92	25.0	92	25.0	92	25.0
94	25.0	94	25.0	94	25.0
96	25.0 tive to the top of	96	25.0	96	25.0

^{*}Measured relative to the top of the well casing.

SECTION F-3 VACUUM & POTENTIOMETRIC DATA TABLE WINDSOR MART

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 SEPTEMBER 26-30, 2016

Time H2O) Water (ft.)* Time H2O) Water (ft.)* Time H2	RW-2 um (in Depth to PO) Water (ft.)*
Time H2O) Water (ft.)* Time H2O) Water (ft.)* Time H2	_
	50 15.07
	50
	50
	50
	50 15.02
	50
	70
	75
	75 15.03
	50
	50
	25
	00 14.98
	00
	00
	00
	00 14.94
	00
	00 14.99
	00 15.13
	00
	50 15.20
	50
	00 15.34
	75
	50 15.39
	50 15.45
	50 15.48
30 0.25 16.07 30 0.00 15.84 30 5.	00 15.49
	00 15.52
34 0.25 16.09 34 0.00 15.87 34 5.	00 15.55
42 0.25 16.12 42 0.00 15.95 42 5.	00 15.63
44 0.25 16.10 44 0.00 15.96 44 5.	00 15.67
46 0.25 16.07 46 0.00 15.94 46 5.	00 15.71
48 0.25 15.99 48 0.10 15.92 48 4.	75 15.69
50 0.25 15.97 50 0.10 15.89 50 5.	00 15.62
52 0.25 16.03 52 0.10 15.86 52 5.	00 15.64
54 0.25 16.05 54 0.10 15.88 54 5.	00 15.65
56 0.25 16.09 56 0.05 15.92 56 5.	00 15.66
58 0.25 16.12 58 0.00 15.97 58 5.	00 15.69
66 0.25 16.30 66 0.00 16.12 66 5.	00 15.64
	00 15.65
70 0.25 16.33 70 0.10 16.20 70 5.	00 15.68
72 0.25 16.37 72 0.00 16.22 72 4.	40 15.69
74 0.25 16.45 74 0.00 16.29 74 3.	75 15.73
76 0.25 16.49 76 0.00 16.34 76 3.	30 15.71
78 0.25 16.54 78 0.00 16.37 78 3.	40 15.70
	42 15.72
	41 15.73
	40 15.70
92 0.25 15.61 92 0.00 15.45 92 4.	75 15.63
94 0.25 15.69 94 0.00 15.53 94 5.	00 15.59
96 0.25 15.73 96 0.00 15.68 96 5.	00 15.14

^{*}Relative to top of well casing.

SECTION F-7 FREE PRODUCT THICKNESS TABLE WINDSOR MART CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 SEPTEMBER 26-30, 2016

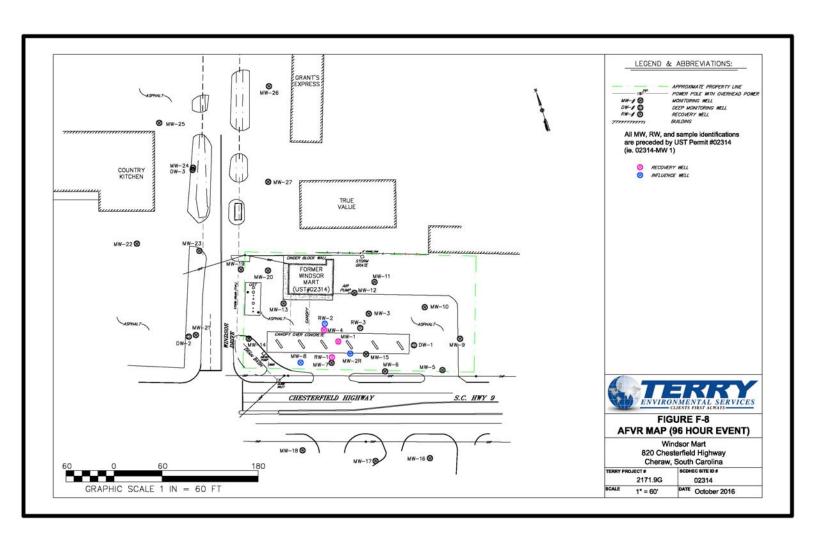
Well #	-	Depth to Product	Depth to Water	Product Thickness
MW-1	Initial	15.56	15.57	0.01
1V1 VV - 1	Final	n/a	15.68	n/a
MW-4	Initial	15.30	15.36	0.06
101 00 -4	Final	n/a	15.29	n/a
RW-1	Initial	15.65	15.84	0.19
IC VV -1	Final	n/a	15.80	n/a
MW-2R	Initial	n/a	15.42	n/a
1V1 VV -21X	Final	n/a	15.73	n/a
MW-8	Initial	n/a	15.71	n/a
IVI VV -0	Final	n/a	15.68	n/a
RW-2	Initial	n/a	15.07	n/a
1K VV -2	Final	n/a	15.14	n/a

8. AFVR Event Map

Figure F-8 AFVR Map - Attached

9. Recovery Water Disposal

The disposal manifests and weigh tickets for the recovery water generated during the September 26-30, 2016 AFVR Event are included in Appendix G.



G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.

H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, one 96-hour AFVR event was performed at the subject site. Prior to the September 2016 event, free-phase product was measured in MW-1 (0.01 feet), MW-4 (0.06 feet), and RW-1 (0.19 feet). Upon completion of the event, no free-phase product was measured. A total of 25.67 pounds of volatile organic vapors (approximate equivalent of 4.11 gallons of gasoline) were recovered as emissions during the events.

The AFVR event was successful at recovering contaminant mass and dewatering the source area. As such, it is recommended to conduct an additional 96-hour AFVR event on the monitoring/recovery well network in the source area.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Potentiometric Data - Not Applicable

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Not Applicable

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

4. Site Potentiometric Maps

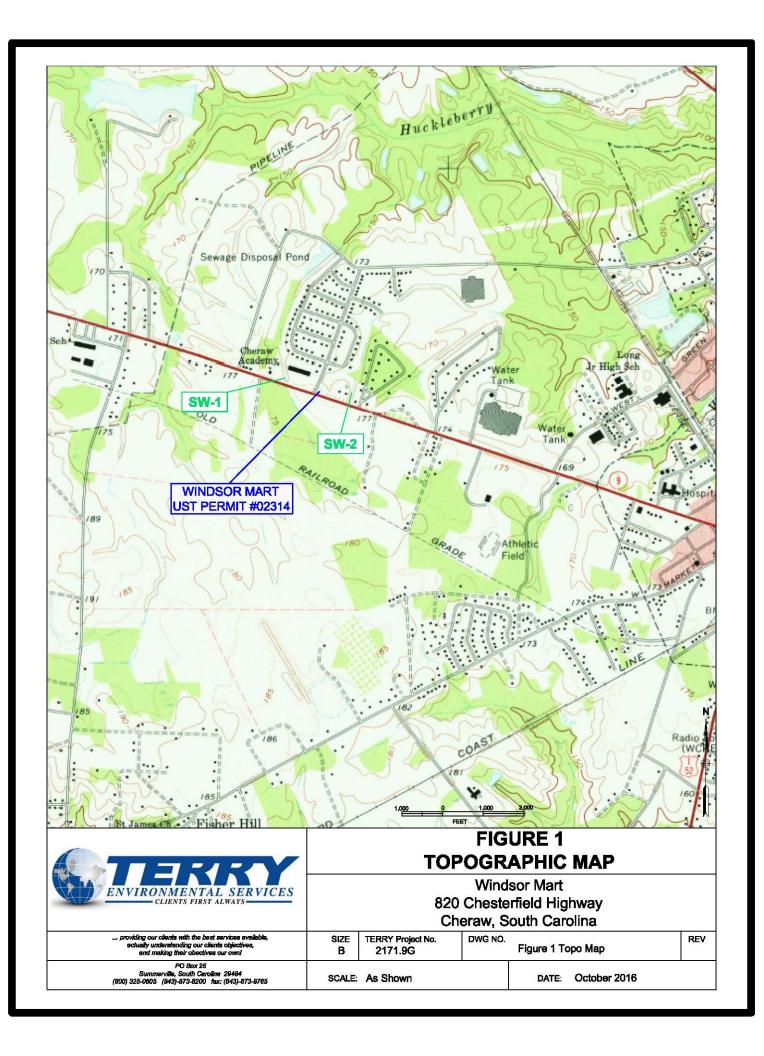
Figure 5 Site Potentiometric Map – Not Applicable

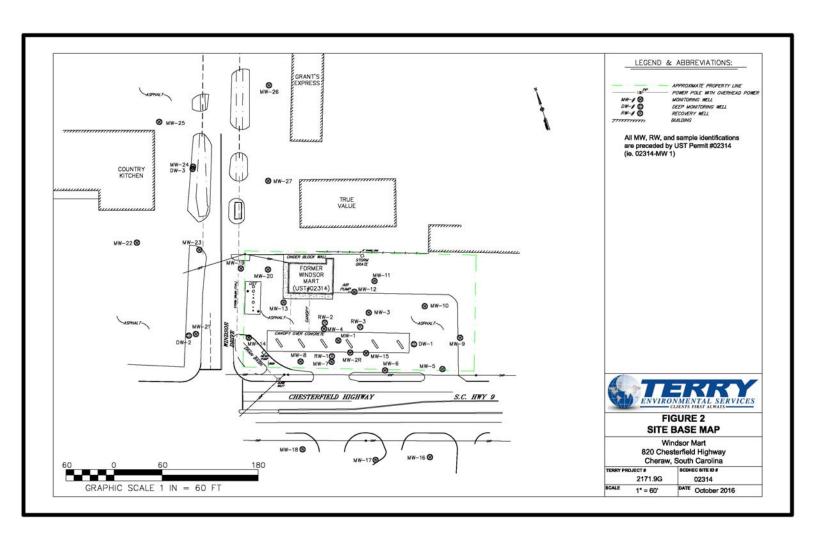
5. Geologic Cross Sections

Figure 6 Geologic Cross Sections - Not Applicable

6. Predicted Migration and Attenuation of CoCs

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable





K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

Not Applicable

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifests
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data (Not Applicable)

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifests

Water Recovery



Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA IO# (if applicable): OZ-314 (SC PHEC)	35,570	Waste ID Nun		
2. Generator's Name and Mailing Address:		Phone (1	
WINTSOR MAKET		1 Hone (,	
GTO MESTER JE IN Highway		PO#:		
cureau, su				
Agent of Generator and Mailing Address:		Phone (e	43) 873-	5200
TEXPY Environmental		7 110110 (2	Ede Me	INTERMENT
P. O. BOX 25		PO#:	+ PLEASE	to the solice to do
SUMMERVILL, SC 294E4			- 8	outgomery -text with gallow in for 03-348-7470-
Transporter Company Name:		Phone ()	
and the same of th				
Truck & Trailer License Number:				
Transporter U.S. EPA IDe:				
	-31	- V 1000 N TO 1000		
8. Facility Name and Site Address:	N.	lailing Address		Phone: (843) 797-3111
US Water Recovery		Water Recov		F Min 202 4001
511 Old Mt. Holly Rd.	511	Old Mt. Holly	Rd.	Fax: (843) 797-1884
Goose Creek, SC 29445	Goos	e Creek, SC 2	8445	
7 Facility U.S. EPA ID#			THE RESERVE OF THE PARTY OF THE	
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	No.	ainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	70	GAZ	4.857
9. Garnerator's Cartification: I hereby declare that the contents of this co-		M bossida A b		
Generator's Certification: I hereby declare that the contents of this constove by proper shipping name and are classified, packed, marked as	nsignment are r	not hazardous b	y definition or 8	ating and are fully and accurately described
above by proper shipping name and are classified, packed, marked as to applicable international and national government regulations and the	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	indition for transport by highway according pertify that the contents of this consignment
above by proper shipping name and are classified, packed, marked as to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Fo	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	indition for transport by highway according pertify that the contents of this consignment
above by proper shipping name and are classified, packed, marked as to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name; Signature: M. Monet Common of Total Common Standard Profile For Stan	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	indition for transport by highway according pertify that the contents of this consignment
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name; M. Mone ICOMICE A TOURS Signature: 10. Transporter Acknowledgement of Receipt of Materials	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	prodition for transport by highway according certify that the contents of this consignment as Designated Facility. Date: 9/2-110
above by proper shipping name and are classified, packed, marked as to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name; Signature: M. Monet Common of Total Common Standard Profile For Stan	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	andition for transport by highway according pertity that the contents of this consignment are Designated Facility.
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name; M. M. One ICOMICE A TOUR CONTROL Signature: 10. Transporter Acknowledgement of Receipt of Materials	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	prodition for transport by highway according certify that the contents of this consignment as Designated Facility. Date: 9/2-110
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature: Sig	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	prodition for transport by highway according certify that the contents of this consignment as Designated Facility. Date: 9/2-110
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: M. MONTO MORE TO MORE TO Materials Printed/Typed Name: Signature: Signature: Signature: 11. Discrepancy Indication space:	nd labeled, and laws of the St	t are in all respe ate of South Ca	cts in proper or rolina. I further o	prodition for transport by highway according certify that the contents of this consignment as Designated Facility. Date: 9/2-110
above by proper shipping name and are classified, packed, marked at to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile For Printed/Typed Name: Signature: Sig	nd labeled, and a laws of the Storm previously is Reule's	t are in all respe ate of South Ca	ets in proper or rollina. I further of dispproved by the	Date: 9/27///

15222134 TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT IA 52773 (563) 284-6263 www.catecale.com

15222135

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash of

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

Reimburse you for the cost of the overweight fine if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.co for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The tour weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE STEER AXLE 9860 I io 9-27-2016 2220 DRIVE AXLE 1 5 SCALE: 381 タエムの I b LOCATION: TRAILER AXLE PILOT TRAVEL SENTER PUBLIC WEIGHMASTER'S 1-95 AND 1-52 ENTY 164 * GROSS WEIGHT 31260 J. to FLORENCE

> This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law

IMPRINT SEAL HERE (IF APPLICABLE)

CERTIFICATE OF

WEIGHT & MEASURE

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIBHT ALL KINDS

COMPANY DOD SE TRACTOR .

WEIGHMASTER OF WEIGHER SIGNATURE

LISA BUMB

FULL WEIGH TICKET # (IF REWEIGH)

TRAILER

2135 CUSTOMER COPY

WEIGH NUMBER

ID CAT Scale* Reg 3059 0

WEIGHMYTRUCK.

WEIGH US

PHC

1522-44 TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 830 WALCOTT, IA 52773 (563) 284-8263 www.catscale.com

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THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantes with cash."

WEIGH WHAT WE SAY OR WE PAY!

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toff Free) or visit www.catecaleguarantee.com for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are quaranteed by CAT Scale.

DATE:

9-27-2018

STEER AXLE

9840 走与

DRIVE AXLE

31120 1 to

SCALE: LOCATION:

PILOT THAVEL CENTER

TRAILER AXLE

30780 a to

1-95 AND 1-52 EXET 164 GROSS WEIGHT 7 1 7 4 C FLORENCE

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

> This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law

> > net 40,460 = 4,857 G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

COTTAILER !

10

WEIGH NUMBER

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICKET # (IF REWEIGH)

JUSTOMER COPY

是北特岛

© CAT Scale* Rog 3059 07715

WEIGHMYTRUCK.COM

WEIGH USING

YOU

PHONE

Water Recovery

Non-Hazardous Manifest: Waste Water of	of Druins	Numb				
Generator's EPA ID# (if applicable): C2319 (SC DHEC)		Waste ID Nur	noer			
Generator's Name and Mailing Address:		Phone ()	The state of the s		
Windsor Mart		The same of				
	820 chesterfield Highway		PO#:			
cheraw, Sc						
Agent of Generator and Mailing Address:		Phone (g	43) 754	-4450		
Terry Environmental		A CARLO				
POBOX 25		PO#:				
Summerville, SC 29484	1					
Transporter Company Name:		Phone ()			
Truck & Trailer License Number.						
5. Transporter U.S. EPA ID#:						
6. Facility Name and Site Address:		Mailing Addres		Phone: (643) 797-3111 Fax: (843) 797-1884		
US Water Recovery		S Water Reco				
511 Old Mt. Holly Rd. Goose Creek, SC 29445		1 Old Mt. Holly ose Creek, SC 1		STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,		
	-500	10,500	72.10			
7 Facility U.S. EPA IDs:						
Start Level: End Level:		Total Gallans	E .	Tank Number		
				A STATE OF THE STA		
8. U.S. DOT Description	Container		Unit	Quantity		
	No.	Type				
a. Non-Hazardous, non-regulated waste water	107	VT	GAL	4727		
			-			
			-			
	-					
			1	1,		
Generator's Certification: I hereby declare that the contents of this	consignment an	e not hazardous	by definition or	r listing and are fully and accurately describ		
above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and	d and labeled, a	nd are in all res State of South (pects in proper	condition for transport by highway according continues continues the contents of this consistents		
are as represented by the description contained on the Waste Profile	E Form previous	y submitted to a	ind approved by	r the Designated Facility.		
Printert/Typed Name: Signature:			2			
Lyall Plumb	ada			Date: 9/28/16		
Transporter Acknowledgement of Receipt of Materials Signature:	No. of Street			Date: O / C ·		
Printed Typed Name: 10dd Brown Signature:	Dorl	A R	ne	9/28/11		
11. Discrepancy Indication space:						
			State of the latest and the latest a			
12. Facility Owner or Operator: Certification of Receipt of Materials						
Printed/Typed Name: Signature: Signature:		1.14	1	Date CINTI		

85408788



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

85408788

1628

DATE:

SCALE LOCATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 8782

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE. YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Cell CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.satecaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Atm: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

9-28-2016

KANGAROO EXPRESS

I 26 EXIT 199B

SUMMERVILLE SC

STEER AXLE 10480 16

15740 16 DRIVEAXLE

12000 TRAILER AXLE

38220 16 * GROSS WEIGHT

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaater, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

DEJA

FREIGHT ALL KINDS

GOODSELL

COMPANY

FEE \$2.00

254

WEIGHMASTER OF WEIGHER BISNATURE 05

105 TRAILER I

WEIGHMYTRUCK.CO

WEIGH USII

PHON

ULL WEIGH85408782 TICKET #

16

(IF REWEIGH)

CUSTOMER COPY

O CAT Scale* Reg 3055 07715

85408782

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT IA 52773 (563) 284-6263 www.catecale.com

DATE:

1511 85408782

SCALE LOCATION

PUBLIC WEIGHMASTERS CERTIFICATE OF WEIGHT & MEASURE

> IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 8782

WEIGH WHAT WE SAY OR WE PAY

THE CAT SCALE GUARANTEE

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will.

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other sosie companies is that we back up our guarantee with cash.

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we balleve our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE. YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM REBOLVED:

Post bond and request a court date

Cell CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catecateguarantee.com for Instructions

IMMEDIATELY sand a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn. Guarantee Department.

*The lour weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

9-28-2016

254

STEER AXLE

10520 10

34620 16

DRIVE AXLE

TRAILER AXLE

32460 16

77600 * GROSS WEIGHT

16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

net 39,380 = 4,7276

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSELL

KANGAROO EXPRESS

I 26 EXIT 199B

SUMMERVILLE SC

05

105

WEIGHMYTRUCK.CO

WEIGH US!

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PHON

COMPANY

FEE \$11.00

TRACTOR #

TRALER #

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH THOKET #

OF REWEIGHT

HEATHER

CUSTOMER COPY

6 CAT Boals* Reg 3655 07/1



Non-Hazardous Manifest: Waste Water of	or Drums	Numbe	er:		
1. Generator's EPA ID# (if applicable): 023 SC DHEC)		Waste ID Num	ber:		
Generator's Name and Mailing Address:		Phone (&	-1		
White war wart					
820 CULTER HEIX They havery		PO#:			
auxawist.	SIND OF THE REAL PROPERTY.	and the second			
Agent of Generator and Mailing Address:	gieri i	Phone (8	(5) 3157	470	
TERFY Environmental					
P.O. 180. 25		PO#:	-> - FOCC	DC 1941 1015	
Summerville, SU 29484				<u> </u>	
Transporter Company Name:		Phone ()	The state of the s	
Truck & Trailer Licensé Number:			and the same		
5. Transporter U.S. EPA ID#:					
G 32/8G 324 530		energy and	24	Phone: (843) 797-3111	
Facility Name and Site Address: US Water Recovery		failing Address Water Recover		Management Committee of the Committee of	
511 Old Mt. Holly Rd.		Old Mt. Holly		Fax: (843) 797-1884	
Goose Cresk, SC 29445	Good	se Creek, SC 2	9445		
7 Facility U.S. EPA IDs:					
Start Level: End Level:	that	Total Gallons		Tank Number	
1 00					
8. U.S. DOT Description	Con	tainer	Unit	Quantity	
	No.	Туре			
a. Non-Hazardous, non-regulated waste water	167	WT	GAL	5,349	
			Time gar		
		-			
	at the same of the same of				
			· · · · · · · · · · · · · · · · · · ·	The state of the s	
			- 75.7		
				20/20	
 Generator's Certification: I hereby declare that the contents of this above try proper shipping name and are classified, packed, marke to applicable international and national government regulations and 	d and labeled, an the laws of the S	d are in all resp state of South C	ects in proper arolina. I furthe	condition for transport by highway according a certify that the contents of this consignment	
are as represented by the description contained on the Waste Profit Printed/Typest Name. Signature			in approved by	Date:	
M MONTROMERY TONICE	M.M	entyw	MIN	9/20/10	
10. Transporter Acknowledgement of Receipt of Materials	1	100	1	Date: 9.28-16	
Printed Typed Name Signature Signature	Van	1 De	ul	Date: 9.28-16	
11. Discrepancy Indication space:		- 7 13 43	1		
12. Facility Owner or Operator Certification of Receipt of Materials		1	1		
Printed/Typed Name: Signature	. //	1	V	Date	
)A (MAX)		LIh	1	9-28-16	
White - Facility Yellow - Off		k - Transpo	and the second	Blue - Generator	



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT IA 52773 (563) 284-6263 www.catscale.com

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight line from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight line if our scale is wrong. OR

(2) A representative of CAT Scale Company will appear in court WITH the three as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguaran 2) for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighted on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

STEER AXLE

10080 1.10

DRIVE AXLE

12300 LB

SCALE:

LOCATION:

241 PILOT THAVEL CENTER

9-28-2016

TRAILER AXLE

母まらの IB

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

FLURENCE SE

1-95 AND I-52 EXIT ION GROSS WEIGHT 31 600

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly eigned and sealed shall be prima facia evidence of the

IMPRINT SEAL HERE (IFAPPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

accuracy of the weight shown as prescribed by law.

REZENT. ALL KINDS

COMPANY

WEIGHMASTER OR

IRACTOR #

TRAILER #

10

WEIGH NUMBER

WEIGHER SIGNATURE

KIERRA DAVIS

FULL WEIGH TICKET #

IIF REWEIGHT

CUSTOMER COPY

© CAT Scale# Res

WEIGHMYTRU

WEIG

15222185 CHET NUMBER



CERTIFIED **AUTOMATED** TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date

9-28-2016

PILOT TRAVEL CENTER

SBA

Call CAT Scale Company direct 24 hours a day at 1-677-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

SCALE:

LOCATION:

STEER AXLE

DRIVE AXLE

TRAILER AXLE

* GROSS WEIGHT

I-RE AND I-BY EXIT 184

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

not = 44,560 = 5,3496

1. 15

1 50

IMPRINT SEAL HERE (IF APPLICABLE)

PUBLIC WEIGHMASTER'S

CERTIFICATE OF

WEIGHT & MEASURE

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

COMPANY

WEIGHMASTER OR

10080

99240

自留840

TRAILER # (+)

FEE

WEIGHER SIGNATURE

BUMBARRE

FILL WEIGH YICKET # OF REWEIGHT

WEIGHMYTRUCK.CO

WEIGH USIN

YOU

PHON

© CAT Scale* Reg 5059 011

WEIGH MUMBER 21.21 CUSTOMER COPY

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Water Recovery

Non-Hazardous Manifest: Waste Water o	r Drums	Numb	er:	
1. Generator's EPA ID# in applicable (SC Office)	and the state of t	Waste ID Nu	mber	
2. Generator's Name and Mailing Address: WINDSOR MOIST 820 CHESTORY HOWAY		Phone ()	
aucaw, St		, 0		•
3. Agent of Generator and Mailing Address: TEREL Environmental P.O. BOX 25 SUMMARVIU I SU 29454		Phone (8	puareto	-7470 CH WHU AMOUNT
4. Transporter Company Name: GOO do Sell TRONS POLICITO 1 HOUSE CREEK ISE Truck & Trailer License Number:	7	Phone ()	
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 511	lailing Addres Water Reco Old Mt. Holly se Creak, SC I	very Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884
7 Facility U.S. EPA ID#:				
Start Level: End Level:	N AL C	Total Gallons		Tank Number
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	OT	6AL	5,549
Generator's Certification: I hereby declare that the contents of this contents by proper shipping name and are classified, packed, marked to applicable international and national government regulations and trace as represented by the description contained on the Waste Profile in	and labeled, an	are in all resi tate of South C	pects in proper Carolina, I furthe	condition for transport by highway according ar certify that the contents of this consignment
Printed/Typed Name: Signature: M MONATIONTE / TOUGHT. Signature: 10. Transporter Ackgowledgement of Receipt of Materials	W. y	/		Date: 9/29/10
Printed/Typed Name Signature: 11. Discrepancy Indication space:	Ments	Suy	Commence of the Control	Date 9-29-14
12. Facility Owner or Operator: Politication of Record of Materials Printed/Typed Name: White - Facility Yellow - Office		7 - Transp	Jan	Date 3-24-16



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.cetecale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company quarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(t) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

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STEER AXLE

9820 2. Es 9-29-2016 **DRIVE AXLE** 2120 LD SCALE: GAL 2150 LD LOCATION: TRAILER AXLE PILOT THAVEL CENTER 1-95 AND 1-52 EXTY 164 GROSS WEIGHT @ 1060

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

DATE:

IMPRINT SEAL HEBE (IF APPLICABLE)

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facts evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK PRODUCE PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FRE TIGHT ALL

TRACTOR #

COMPANY

TRAILER 107 WEIGHMASTER OR FULL WEIGH WEIGHER SIGNATURE TICKET # OF FIEWERSHI

FLORENCE SC

© CAT Scale* Heij 3059 07/16

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WEIGHMYTRUCK.CO

WEIGH USIN

YOU

PHON

CUSTOMER COPY

2223

WEIGH BUMBER

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company governmes that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash."

WEIGH WHAT WE SAY OR WE PAYS

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

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*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT. and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale

DATE:

SCALE:

9-29-2016

FLORENCE

STEER AXLE

7886 2 500

1 25

DRIVE AXLE

LE TRAILER AXLE

33740

LOCATION: PILOT TRAVEL DENTER 1-95 AND 1-52 EXTT 164 GROSS WEIGHT

7280

TRACTOR #

IMPRINT SEAL HERE (IF APPLICABLE)

PUBLIC WEIGHMASTER'S

CERTIFICATE OF

WEIGHT & MEASURE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prime facia evidence of the accuracy of the weight shown as prescribed by law.

net 46,220 = 5,549G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL

COMPANY

WEIGHMASTER OR WEIGHER SIGNATURE TRALER

FULL WEIGH TICKET #

(IF REWEIGH)

CUSTOMER COPY

2223

WEIGH MIMBER

© CAT Scale* Rug 3059 07/16

WEIGHMYTRUCK.CO

WEIGH USI

YO

PHON





Non-Hazardous Manifest: Waste Water or	Deumo	Numbe	0 K1	
Generator's EPA ID# (if applicable):	Drums	Waste ID Num		
02314 (SC PHEC)		Waste ID Non	ine.	
Generator's Name and Mailing Address: WIN-150 P. MOIN-1		Phone ()	111
820 chestoryield Highway		PO#:		900
cherau. SL				
Agent of Generator and Mailing Address:		Phone (4	318	7470
terry environmental			Please	toxt
10. BOX 25		PO#:		
SUMMERVINE, SC 27484				
Transporter Company Name:		Phone ()	
GOUSEII TRANSPORTATION				
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address;	N	failing Addres	s:	Phone: (543) 797-3111
US Water Recovery	US	Water Recov	ery	Fax: (843) 797-1884
511 Old Mt. Holly Rd. Goose Creek, SC 29445		Old Mt. Holly se Creek, SC 2		
			0.170	
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons		Tank Number
8. U.S. DOT Description	Con	tainer	Unit	Quantity
G. 5.5. 551 5551 (\$1.6)	No.	Туре	5,41	Section into
a. Non-Hazardous, non-regulated waste water	107	UT	but	5 637
		1 - 1 - N		
		101 / 10		
			Take 1	
 Generator's Certification: I hereby declare that the contents of this co above by proper shipping name and are classified, packed, marked a 	ind labeled, an	d are in all resp	sects in proper	condition for transport by highway according
to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F				
Printed/Typed Name: Signature:	u. n			Date: 9/30/14
Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	1.	1		Date: O =
Hul Cany	Mul	Dy		7.30.16
11. Discrepancy Indication space(45	/	1000	127
12. Facility Owner or Operator: Certification of Receipt of Materials	- 1		1000	2/12/1
Printed/Typed Name: Signature:	West	_		Date 00
White - Facility Yellow - Office	e Pink	c - Transpo	orter E	Blue - Generator

15222253

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 264-6263 www.catscale.com

> LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT'S MEASURE

DATE

SCALE

IMPRINT SEAL HERE (IF APPLICABLE)

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

If you get an overweight line from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

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IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn. Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEER AXLE 10100 lb 9-30-2016 DRIVE AXLE 2360 1 100 351 TRAILER AXLE 图 1440 1 10 FILDY THAVEL GENTRE T-52 EVIT 164 GROSS WEIGHT 1-95 高利益 31600 I b FLORENCE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE PROPERTY, COMMODITY, OR ARTHOLE WEIGHED

FREMBHT-ALL

TRACTOR #

THAILER #

WEISH MUMBER

EESE

WEIGHMASTER OR WEIGHER SIGNATURE

LISA BUMBARNER

EULL WEIGH IE BEWEIGH)

D CAT Schief Reg 3039 07/16

WEIGHMYTRUCK.COI

WEIGH USING

YOU

PHONE

USTOMER COPY

152222261

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company que untrees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will

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WEIGHMYTRUCK.COM WEIGH USING YOUR

PHONE!

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DATE:

STEER AXLE

IOI EO 1 10

7-30-3016

DRIVE AXLE

国际社员日 LE

SCALE: LOCATION:

THAILER AXLE

SHORO 1 12

78500

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

GROSS WEIGHT

FLOREMOE

TRAVEL CENTER

1-95 构构的 1-52 在北京

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prime facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

ret 46,960 = 5,6376

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LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

PERSONE OLL MINUS

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WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH

LIBA BUMBANN

TICKET (IF REWEIGH)

TOMER COPY

ree 1

ESTAN NUMBER

© CAT Scale# Reg 3059 07/16

DRIVER IN TRUCK UNLESS CHECKED HERE

Water Recovery

Non-Hazardous Manifest: Waste Water of	r Drums	Numb	er:		
1, Generator's EPA ID# (if applicable):		Waste ID Nu	mber:		
2. Generator's Name and Mailing Address: Conven Cupbo. 820 Chestenfield Hwy Chenaw, 5C	0	Phone ()		
820 Chester field Hours	RANC	PO#:			
Phones SC		F O #.			
Agent of Generator and Mailing Address:		Phone (1		
TERRY ENVIRONMENTAL SRUS		the state of the s	1		
1753 N. Mais St 11 50		PO#:			
3. Agent of Generator and Mailing Address: Texang ENVIRONMENTAL SRUS 1753 N. Main St Summer ville, SC 4. Transporter Company Name: General Tempert 511 Old MA Holly Rd Truck & Trailer License Number: Goese Cheek SC		Phone ()		
Truck & Trader License Number: Goese Cheek SC					
5. Transporter U.S. EPA ID#:					
6. Facility Name and Site Address:		Mailing Addres		Phone: (843) 797-3111	
US Water Recovery 511 Old Mt. Holly Rd.		IS Water Reco		Fax: (843) 797-1884	
Goose Creek, SC 29445		ose Creek, SC			
7 Facility U.S. EPA ID#:					
Start Level; End Level:	Total Gallons			Tank Number	
8. U.S. DOT Description	Co	ntainer	Unit	Quantity	
	No.	Type		10.15	
a. Non-Hazardous, non-regulated waste water	101	VT	gals	4,607	
		1.0	TW Takes		
			4		
		1			
		TO STAN TO	The second second		
Generator's Certification: I hereby declare that the contents of this contents of the con	onelonment se	n not harardain	by definition o	r lieting and are fully and accurately describe	
above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile I	and labeled, i he laws of the	and are in all res State of South C	pects in proper Carolina. I furthe	condition for transport by highway according or certify that the contents of this consignment	
Printed/Typed Name: Signature:	100	134 July 188		Date:	
10. Transporter Acknowledgement of Receipt of Materials	1				
Printed/Typed Name Signature Signature	n/on A	Van		Date: 9/30/16	
11. Discrepancy Indication space:	L'Estend	1000	T'AND	111	
2. Facility Owner or Operator, Certification of Receipt of Materials		^	- Salar		
Printed Typed Name: Signature: Signature:	thorn	Duch	~	Date 9/3/4	
White - Facility Yellow - Office	& Pir	k - Transp	orter I	Blue - Generator	

15222268

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantaes that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAYO

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DATE

P-20-2016

STEER AXLE

DRIVE AXLE

1120 1 b

15760

SCALE

10222306 PUBLIC WEIGHMASTER'S

LOCATION:

国命主 PILCI TRAVEL CENTER

TRAILER AXLE

LOSSO A to

1-95 AND 1-52 EXIT 164 GROSS WEIGHT 37540 FLORENCE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

HART

1-20

1 15

CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

accuracy of the weight shown as prescribed by law

FREIGHT

COMPANY

WEIGHMASTER OR

TELACTOR #

WEIGHER SIGNATURE

TRAILER FULL WEIGH TICKET # REWEIGH)

2266 USTOMER COPY

WEIGH NUMBER

© CAT Scale* Reg 3059 97/16

WEIGHMYTRUCK.CO

WEIGH USIN

YOU

PHONE

15222271 TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catacale.com

THE CAT SCALE GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY'S

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DATE STEER AXLE 11120 Lo ター当り一番の人名 DRIVE AXLE 32300 13514 SCALE 包裹理 32000 1 to LOCATION TRAILERAXLE PILOT THANKS WENTER PUBLIC WEIGHMASTER'S 1-95 AND I-52 EXIT 164 GROSS WEIGHT 7 E 9 20 **CERTIFICATE OF** a to WEIGHT & MEASURE FLOSENCE This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law. 38,380 = 4,6076

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

WEIGHMASTER OR WEIGHER SIGNATU

TRALER TO

DAMES

FULL WEIGH TICKET # ()F REWEIGH)

2268 CUSTOMER COPY

WEIGH MUMBER

O CAT Scales May 2058 07/16

WEIGHMYTRUCK.CO

WEIGH USIN

YOL

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Water Recovery

Non-Hazardous Manifest: Waste Water	or Drums	Numb			1911
Generator's EPA ID# (if applicable):		Waste ID Nur	mber:		
2. Generator's Name and Melling Address: COLNEL CUPBOALD		Phone ()		***
820 CHESTERFIELD HOLY		PO#:			
ChexAW S.C 29520					*
Chexaw S. (29520) 3. Agent of Generator and Mailing Address: TELLY INVIDORENTAL		Phone ()		
TERRY INVICOMENTAL		PO#:			
M.Chelleston SC		C.O.W.			
Transporter Company Name:		Phone ()		
Truck & Trailer License Number: GROSE CLEEK SC.		1 1/5/1/5 A	Control of the last of the las		
511 ald act, Helly has	actives.				
Truck & Trailer License Number: State Color Science SC SC SC STransporter U.S. EPA IDII:	27773				
				plant	-0
		Mailing Addres		Phone: (843) 797-31	11
Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd.		IS Water Record 11 Old Mt. Holly		Fax; (843) 797-188-	San Manager
Goose Creek, SC 29445	Go	ose Creek, SC	29445		
7 Facility U.S. EPA ID#:				e de la companya del companya de la companya del companya de la co	
Start Level: End Level:	Total Gallona,			Tank Nu	11000
			71979	10	6
8. U.S. DOT Description	No.	ntainer Type	Unit	Qua	antity
a. Non-Hazardous, non-regulated waste water	106	VT	G 8/.	4.59	1
		Tongs Color	- Total Santa	1	
The state of the s		LINE			378 M
And the second s					
3. Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marke to applicable international and national government regulations and are as represented by the description contained on the Weste Profil	d and labeled, if the laws of the	and are in all rea State of South (pects in propa Carolina. I furth	r condition for transport ser certify that the conten	by highway accord to of this consigning
Printed/Yunad Name - Signature		TOID		Date:	109/1/16
Transporter Acknowledgement of Receipt of Materials		MI	THE PARTY OF		1-111110
Printed/Typed Name: Signature	k = 1			Date:	
Discrepancy Indication space:					K
IZ. Facility Owner or Operator: Certification of Receipt of Materials	14			Date ,	In the
Printed/Typed Name: Signature	1 als	~		/(strille
The state of the s	and the same of th	-	Contract of the last of the la	The same of the sa	101

15222280 TICKET NUMBER

SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catacale.com

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15222260

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY

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DATE

10-01-2016

STEER AXLE

10780 16

DRIVE AXLE

17220 1 b

SCALE LOCATION:

PUBLIC WEIGHMASTERS CERTIFICATE OF WEIGHT & MEASURE

361

PILOT TRAVEL CENTER

TRAILER AXLE

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

12740 1 6

1-95 AND 1-52 EXIT 164 - GROSS WEIGHT 4 0 9 4 0 FLORENCE BE

1 1

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

COMPANYOODSELL

TRACTOR

TRAILER 106

WEIGHMYTRU

WEIGH

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2280

WEIGHMASTER OR WEIGHER SIGNATURE

accuracy of the weight shown as prescribed by law.

MEEL

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

COLAT Souther Reg 3

15222282



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

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DATE:

STEER AXLE

10720 I ka

10-01-2014

IBE

DRIVE AXLE

1 to 35520

SCALE: 15222202

LOCATION:

32940 1 b TRAILER AXLE

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

PILOT TRAVEL CENTER 1-95 AND 1-52 EXIT 164 GROSS WEIGHT 79160

FLORENCE SC

This is to certify that the following described merchandise was weighed, counted or measured by a public or deputy weighmaster, and when property signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

rex 38,240 : 4,5916

10

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

TRALER TO A

WEIGH NUMBER 2200

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH 222280 (IF REWEIGH)

WEIGHMYTRUCK.C

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CUSTOMER COPY

G GAT Scottle Reg 1059 01

Water Recovery

Non-Hazardous Manifest: Waste Water	or Drums	Numbe	er:	
Generator's EPA ID# (If applicable):		Waste ID Num	ber	
Generator's Name and Mailing Address:		Phone ()	2
Cornel Cupboard		PO#:		
Cheraw Sc				
O Annual of Companion and Mailing Addisons:		Phone ()	
Terry Environmental		PO#:		
4. Transporter Company Name:		Phone ()	
Goodsell Transport				
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:				10.10
b. Haraponer U.S. Erwitur.				
6. Facility Name and Site Address:		Mailing Addres		Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	51	Water Hecov Old Mt. Holly se Creek, SC 2	Rd.	Fax: (843) 797-1884
7 Facility U.S. EPA ID#:				
Start Level: End Level		Total Galions		Tank Number
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	105	UT	Gal	4926
 Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, marke to applicable international and national government regulations are are as represented by the description contained on the Waste Profit 	ed and labeled, ar d the laws of the S	nd are in all resp State of South C	pects in proper Jarolina. I furthe	condition for transport by highway according in certify that the contents of this consignment
Printed/Typed Name: Signature		Southings to a	no approved by	Date:
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature 11. Discrepancy Indication space:	Jan	d Bi	n	Date: 10-01-14
12. Facility Owner or Operator: Certification of Receipt of Materials		11		
Printed/Typed Narges Signature	11/08	The	Die	Date 10-01-11
White - Facility \ Yellow - Of	fice Pin	k - Transpe	orter/ E	Blue - Generator

15251919

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

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DATE

10-01-2016

STEER AXLE

10600 16

18

DRIVEAXLE 15920

16

251919

SCALE 947

TRAILERAXLE 2140 10

PUBLIC WEIGHMASTER'S **CERTIFICATE OF**

LOCATION TRAVELCENTERS OF AMERICA I-95 EXIT 164

public or deputy weighmaster, and when properly signed and sealed shall be prime facin evidence of the

WEIGHT & MEASURE

FLORENCE SC

GROSS WEIGHT & & & O

16 This is to certify that the following described merchandise was weighed, counted, or measured by a

WEIGHMYTRU

WEIGH

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY OR ARTICLE WEIGHIPPREIGHT ALL KINDS

GEODSELL

TRABOS .

THARE

H NUMBER 19

FEE \$11.00 WEIGHMAETER OR WEIGHER SIGNATURE

accuracy of the weight shown as prescribed by law.

FULL WEIGH

TIESHA B

ID CAT Scale* Rieg 305

CUSTOMER COPY

(IF REWEIGH)

15251920



CERTIFIED **AUTOMATED** TRUCK SCALE

CAT SCALE COMPANY P.O. BOX-630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

55

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DATE:

10-01-2016

SCALE 947

LOCATION TRAVELCENTERS OF AMERICA 251920 PUBLIC WEIGHMASTER'S

I-95 EXIT 164

FLORENCE SC

STEERAXLE 10760 16

DRIVE AXLE 35460 lb

TRAILER AXIS 3460 16

GROSS WEIGHT 9700 16

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law. ret 41,040 = 4,9266

IMPRINT SEAL HERE (IF APPLICABLE)

CERTIFICATE OF

WEIGHT & MEASURE

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHTURE IGHT ALL KINDS

CORODSELL

TRA305 .

TRACES

H NUMBER 19

\$2.00

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICHESOS1919

WEIGHMYTRU

WEIGH

CUSTOMER COPY

BARBARA FULLARD

© CAT Scale? Reg I

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Windsor Mart</u>

UST Permit #02314 - TERRY Project #2171.9G

Is Facility Name, Permit #, and address provided?	Item #	Item	Yes	No	N/A
Is name, address, & phone number of current property owner provided? Is the DIIEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided? Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided? Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided? As the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided? As the facility history been summarized? K Has the regional geology and hydrogeology been described? Are the receptor survey results provided as required? Are the receptor survey results provided as required? Has the site-specific geology and hydrogeology been described? Has the pick screening results been described? Has the field screening results been described? A Was the pick screening results been described? Has a description of the soil sample collection and preservation been detailed? A Was the method of well development been detailed? W Was the method of well development been detailed? W Was the method of well development been detailed? W Was the method of well development been detailed? W Was the method of well development been detailed? W Was the method of well development been detailed? W Was the monitoring wells been labeled in accordance with the UST QAPP guidelines? W Was the monitoring wells been labeled in accordance with the UST QAPP guidelines? W Was the monitoring wells been labeled in accordance with the UST QAPP with the preparation of the well development been provided? W Was the proposition of the well development been detailed? Have the groundwater sampling methodology been detailed? W Was the provided? W Was the provided? W Was the provided of the provided of the succordance with the UST QAPP with the provid	1	Is Facility Name, Permit #, and address provided?	X		
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Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation) Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation) Have recommendations for further action been provided and explained? Has the soil analytical data for the site been provided in tabular format? (Table 1) Has the potentiometric data for the site been provided in tabular format? (Table 2) X		<u> </u>			
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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) X	29		-		X
Have recommendations for further action been provided and explained? Has the soil analytical data for the site been provided in tabular format? (Table 1) Has the potentiometric data for the site been provided in tabular format? (Table 2) X	30				X
Has the soil analytical data for the site been provided in tabular format? (Table 1) X Has the potentiometric data for the site been provided in tabular format? (Table 2) X	31	,	X		
Has the potentiometric data for the site been provided in tabular format? (Table 2)		<u> </u>			X
	34	Has the current and historical laboratory data been provided in tabular format?	<u> </u>		X

Item #	Item	Yes	No	N/A
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)			X
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



CHARLES JACKSON JACKSON OIL CO INC 755 S 4TH ST HARTSVILLE SC 29550-5723

DEC 0 2 2016



Re: Site-Specific Work Plan Directive

Maruti Kundal (Former Windsor Mart), 820 Chesterfield Hwy., Cheraw, SC

UST Permit #02314

Release reported December 6, 1991

Aggressive Fluid Vapor Recovery Report received October 13, 2016

Chesterfield County

Dear Mr. Jackson:

On behalf of the Department of Health and Environmental Control (DHEC), the Underground Storage Tank (UST) Management Division has reviewed the referenced report.

To evaluate the current site conditions, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, please have your contractor develop a Site Specific Work Plan for a groundwater sampling event. Sampling should include monitoring wells MW-1, MW-2R, MW-3, MW-4, MW-7, MW-8, MW-13, MW-15, MW-19, MW-20, MW-23, RW-1, RW-2, trip blanks, field blanks, and field duplicates for BTEX, naphthalene, 1,2-DCA, MTBE, and oxygenates. The groundwater sampling event should be conducted in accordance with the contractor's ACQAP and must be conducted in compliance with all applicable regulations. A copy of QAPP Revision 3.1 for the Underground Storage Tank Division is available at http://www.scdhec.gov/environment/docs/DHEC%20UST%20QAPP Rev-3.1(2).pdf.

Please have your contractor submit the Site Specific Work Plan and Cost Proposal within thirty days of the date of this letter. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial pre-approval from the Agency must be issued before work begins.

Page 2

On all correspondence concerning this site, please reference UST Permit #02314. If you have any questions, please contact me at (803) 898-0608 or by e-mail at 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

cc: Technical File

Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484



Site-Specific Work Plan for Approved ACCAR
Underground Storage Tank Management (III)

PEC 0 9 2016

T. Pood Miner		100	SPUE DE LA VISION
To: Read Miner From: Kelly Cone			CDHEC Project Manager)
Contractor: Terry Environment	al Conicos LIST Contr		ntractor Project Manager)
		ractor Certification Number: UCC-	0223
Facility Name: Maruti Kundal (UST Permit #:	02314
Facility Address: 820 Chesterf			
Responsible Party: Jackson C		Phone: 843-53	37-7080
	, Hartsville, South Carolina 29550-572	23	
Property Owner (if different):			
Property Owner Address: n/a			
Current Use of Property: Gas	s Station and Convenience Store (Co	orner Cupboard)	
Scope of Work (Please che	ck all that apply)	/ ·	
□ IGWA □ Ti		☑ Groundwater Sampling	☐ GAC
	Ionitoring Well Installation	☑ Other	Subsequent Survey
			
Analyses (Please check all t	hat apply)		
Groundwater/Surface Water:	- tala	- 200	
Ø BTEXNMDCA (8260B)	☐ Lead	□ BOD	☐ Methane
☑ Oxygenates (8260B)	☐ 8 RCRA Metals	☐ Nitrate	☐ Ethanol
☐ EDB (8011)	□ TPH	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270D)	□ pH	□ Other	
Soil:		— (C	
□ BTEXN	☐ 8 RCRA Metals	☐ TPH-DRO (3550B/8015B)	
□ PAH	☐ Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	□ TOC
Air:			
□ BTEXN			
Sample Collection (Estimate	e the number of samples of each	matrix that are expected to be co	pllected.)
Soil	Water Supply We	/ells <u></u> Air	1 Field Blank
Monitoring Wells	Surface Water	1 Duplicate	1 Trip Blank
Field Screening Methodolog	••		
	mpleted depth for each point, and		·
# of shallow points proposed:		timated Footage:	
# of deep points proposed:		timated Footage:	feet per point
Field Screening Methodology			
Permanent Monitoring Wells			
	s mpleted depth for each well, and	in all the Abelia prepared longitions	المهما المعالم المعالم المعالم
	Estimated		
	Estimated Estimated		
Comments, if warranted:	method (consistent with SOP):		
Comments, ii wananteu.			
			

UST Permit #: 02314	Facility Name	Maruti Kundal (Former Windsor Mart)	
Implementation Schedule (Number of Field Work Start-Up: 14-30 days Report Submittal: 60 days		ys from approval) Field Work Completion: 30-45 days # of Copies Provided to Property Owners:	n/a
Aquifer Characterization Pump Test: □ Slug Test: □ (Check	one and pro	vide explanation below for choice)	
Investigation Derived Waste Disposa	I Tons	Purge Water: <u>55</u>	Gallons
Drilling Fluids:	_ Gallons	Free-Phase Product:	Gallons
event, etc. Conduct a limited sampling event; shallow r	vells to be aba monitoring wells onitoring wells v	andoned/repaired, well pads/bolts/caps to replaces MW-1, MW-2R, MW-3, MW-4, MW-7, MW-8, MW-13 were last sampled February 2015 and will be purged prells RW-1 through RW-3.	3, MW-15, MW-19
Name of Laboratory:	?? (Yes/No))? (Yes/No)	If no, indicate laboratory information below	
	Propose Legend v Streets o Location ns Location	SGS topographic map showing the site location. accurately scaled, but does not need to be surve d monitoring well locations with facility name and address, UST permit number in highways (indicate names and numbers) of all present and former ASTs and USTs of all potential receptors	eyed. The map
	.g. = = •		



H1. Field Blank

ASSESSMENT COMPONENT COST AGREEMENT SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
August 16, 2016

August 16, 2016 Facility Name: Maruti Kundal (Former Windsor Mart) UST Permit #: 02314 Cost Agreement #: Proposal ITEM QUANTITY UNIT UNIT PRICE **TOTAL** 1. Plan Preparation A1. Site-specific Work Plan \$150.00 \$150.00 1 each \$70.00 B1. Tax Map \$0.00 each \$250.00 C1. Tier II or Comp. Plan /QAPP Appendix B \$0.00 each 2. A1. Receptor Survey * \$551.00 each \$0.00 3. Survey (500 ft x 500 ft) A1. Comprehensive Survey \$1,040.00 \$0.00 each B. Subsurface Geophysical Survey \$1,300.00 \$0.00 1B. < 10 meters below grade each 2B. > 10 meters below grade \$2,310.00 \$0.00 each C1. Geophysical UST or Drum Survey \$910.00 \$0.00 each 4. Mob/Demob A1. Equipment \$1,020.00 \$0.00 each \$423.00 \$423.00 B1. Personnel 1 each C1. Adverse Terrain Vehicle \$500.00 \$0.00 each 5. A1. Soil Borings (hand auger)* \$5.00 \$0.00 foot 6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)* AA. Standard per foot \$15.00 \$0.00 C1. Fractured Rock \$20.20 per foot \$0.00 7. A1. Soil Leachability Model each \$60.00 \$0.00 8. Abandonment (per foot)* A1. 2" diameter or less per foot \$3.10 \$0.00 B1. Greater than 2" to 6" diameter \$4.50 \$0.00 per foot C1. Dug/Bored well (up to 6 feet diameter) \$15.00 per foot \$0.00 9. Well Installation (per foot)* A1. Water Table (hand augered) per foot \$10.60 \$0.00 B1. Water Table (drill rig) per foot \$38.00 \$0.00 CC. Telescoping per foot \$50.00 \$0.00 DD. Rock Drilling per foot \$58.00 \$0.00 E1. 2" Rock Coring \$30.90 per foot \$0.00 G1. Rock Multi-sampling ports/screens \$33.40 \$0.00 per foot HH. Recovery Well (4" diameter) per foot \$45.00 \$0.00 II. Pushed Pre-packed screen (1.25" dia) \$15.00 \$0.00 per foot J1. Rotosonic (2" diameter) \$44.00 per foot \$0.00 K. Re-develop Existing Well per foot \$11.00 \$0.00 10. Groundwater Sample Collection / Gauge Depth to Water or Product * A1. Groundwater Purge 13 per well/receptor \$60.00 \$780.00 B1. Air or Vapors \$12.00 \$0.00 per receptor C1. Water Supply per well/receptor \$22.00 \$0.00 D1. Groundwater -NP, SW, or Dup(1) per well/receptor \$28.00 \$28.00 E1. Gauge Well only per well \$7.00 \$0.00 F1. Sample Below Product \$12.00 \$0.00 per well G1. Passive Diffusion Bag \$26.00 \$0.00 each

1

each

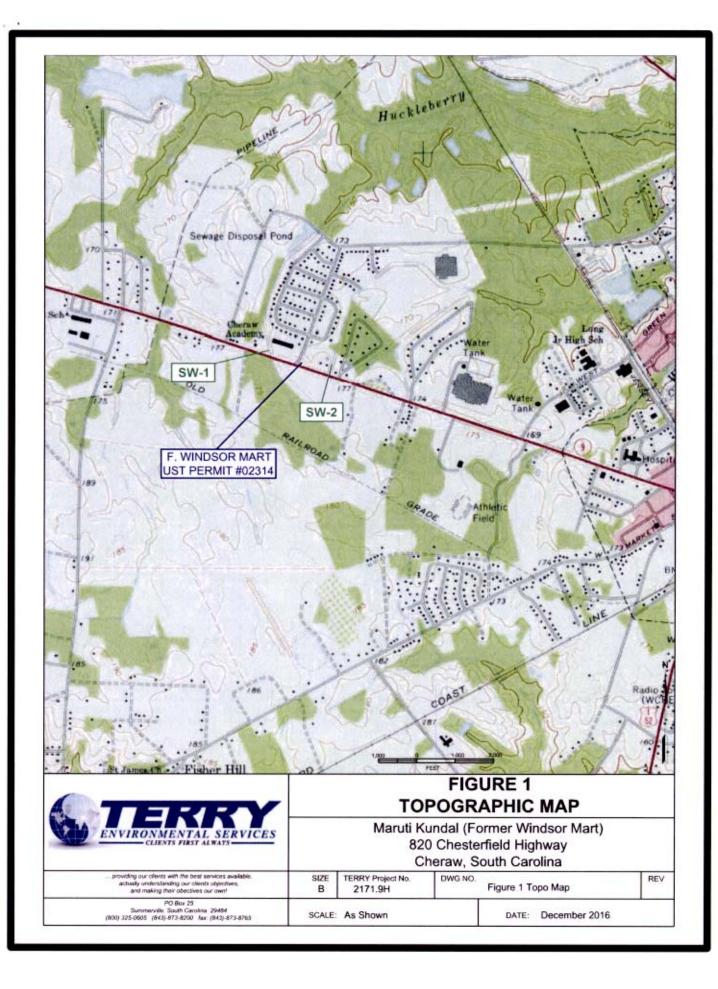
\$24.60

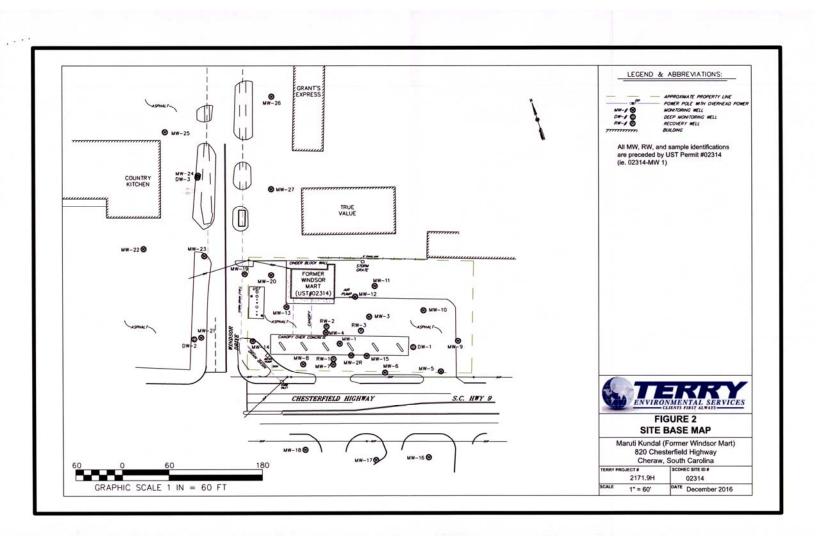
\$24.60

11. Laboratory Analyses-Groundwater		T	T		
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	16	per sample	\$122.00		\$1,952.00
AA1. Lead, Filtered	10	per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0.00
D1. PAH's		per sample	\$60.60		\$0.00
E1. Lead		per sample	\$16.00		\$0.00
F1. EDB by EPA 8011		per sample	\$45.20		\$0.00
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00
1 ' '		1 ' '	\$5.20		\$0.00
II. pH		per sample			
J1. BOD		per sample	\$20.00		\$0.00
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Drinking Water			6404.05		***
L. BTEXNM+1,2 DCA (524.2)		per sample	\$124.05	80000	\$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	\$91.75		\$0.00
N. EDB (504.1)		per sample	\$79.50		\$0.00
O. RCRA METALS (200.8)		per sample	\$100.00		\$0.00
11. Analyses-Soil		l .	*****		
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's		per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00
X1. Total Organic Carbon		per sample	\$30.60		\$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	\$216.00		\$0.00
11. Analyses-Free Phase Product			****		
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per test	\$191.00		\$0.00
C1. Fractured Rock		per test	\$100.00		\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00		\$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*	1	each	\$260.00		\$260.00
17. Disposal (gallons or tons)*					
AA. Wastewater	55	gallon	\$0.56		\$30.80
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal		ton	\$60.00		\$0.00
D1. Drilling fluids		gallon	\$0.42		\$0.00
18. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			\$0.00
21. IGWA (Use DHEC 3666 form)		standard		761	\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A1. 8-hour Event*		each	\$1,375.00	\$0.00
AA. 24-hour Event*		each	\$3,825.00	\$0.00
A3. 48-hour Event*		each	\$6,265.00	\$0.00
A4. 96-hour Event*		each	\$12,567.50	\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50	\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50	\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00	\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00	\$0.00
D. Site Reconnaissance		each	\$203.25	\$0.00
E1. Additional Hook-ups		each	\$25.75	\$0.00
F1. Effluent Disposal		gallon	\$0.44	\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50	\$0.00
24. Granulated Activated Carbon (GAC) filter system	n installation		4001.00	\$0.00
A1. New GAC System Installation*		each	\$1,900.00	\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00	\$0.00
C1. Filter replacement/removal*		each	\$350.00	\$0.00
DD. GAC System removal, cleaning, & refurbishmen	it*	each	\$275.00	\$0.00
E1. GAC System housing*		each	\$250.00	\$0.00
F. In-line particulate filter		each	\$150.00	\$0.00
G1. Additional piping & fittings		foot	\$1.50	\$0.00
25. Well Repair				
A1. Additional Copies of the Report Delivered		each	\$50.00	\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00	\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00	\$0.00
D1. Repair well vault*		each	\$118.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
H1. Replace/Repair stick-up*		each	\$134.00	\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00	\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00	\$0.00
Report Prep & Project Management	12%	percent	\$3,648.40	\$437.81
TOTAL	_			\$4,086.21

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









CHARLES JACKSON
JACKSON OIL CO INC
755 S 4TH ST
HARTSVILLE SC 29550-5723

DEC 2 9 2016

Re: Sample Directive

Maruti Kundal (Former Windsor Mart), 820 Chesterfield Hwy., Cheraw, SC

UST Permit #02314; CA #53700 Release reported December 6, 1991

Site-Specific Work Plan received December 9, 2016

Chesterfield County

Dear Mr. Jackson:

On behalf of the Department of Health and Environmental Control (DHEC), the Underground Storage Tank (UST) Management Division has reviewed the referenced plan submitted on your behalf by Terry Environmental Services, Inc. Sampling of selected monitoring wells is necessary. All work should be conducted in accordance with the contractor's ACQAP and must be conducted in compliance with all applicable regulations. A copy of QAPP Revision 3.1 for the UST Management Division is available at http://www.scdhec.gov/environment/docs/DHEC%20UST%20QAPP Rev-3.1(2).pdf.

Activities at the site should begin immediately upon receipt of this letter. Cost agreement # 53700 has been approved for the amount shown on the enclosed cost agreement form for the sampling of monitoring wells MW-1, MW-2R, MW-3, MW-4, MW-7, MW-8, MW-13, MW-15, MW-19, MW-20, MW-23, RW-1, RW-2 and analysis for BTEX, naphthalene, MTBE, 1,2-DCA, and oxygenates. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. Wells with well screens that bracket the water table interface should not be purged.

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

Terry Environmental Services, Inc. can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved.

Page 2

Please note that applicable South Carolina certification requirements regarding the services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

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

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

On all correspondence regarding this site, please reference UST Permit #02314. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0608 or by e-mail at 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 Agreement

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (with

enclosure)

Technical File (with enclosure)

Approved Cost Agreement

53700

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

MINERRS PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN				
	A1 SITE SPECIFIC WORK PLAN	1.0000	\$150.000	150.00
04 MOB/DEMOB				
	B1 PERSONNEL	1.0000	\$423.000	423.00
10 SAMPLE COLLECTION				
	D1 GROUNDWATER NO PURGE/DUPLICATE	14.0000	\$28.000	392.00
	H1 FIELD BLANK	1.0000	\$24.600	24.60
11 ANALYSES				
GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	16.0000	\$122.000	1,952.00
16 SUBSEQUENT SURVEY				
	A1 SUBSEQUENT SURVEY	1.0000	\$260.000	260.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	\$3,201.600	384.19
		Total Amo	unt	3,585.79

Document Receipt Information

Hard Copy	СР	Email
Date Received	-30-17	
Permit Number	D231H	119
Project Manager Name of Contractor	Leuce MI	ENV.
UST Certification Numb	30 t	
Docket Number	<u> </u>	
Scanned		
Gu	DH Rep	crt

GROUNDWATER MONITORING REPORT MARUTI KUNDAL (FORMER WINDSOR MART) 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #53700

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9H

Kelly K. Cone, PG Vice President Jason A. Terry, PG President

JANUARY 2017



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INTRODUCTION A.

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Maruti Kundal (Former Windsor Mart) (02314)

820 Chesterfield Highway, Cheraw, South Carolina 29520 Facility Address:

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Jackson Oil Company (Contact: Charles Jackson) Name:

755 South 4th Street, Hartsville, SC 29550 Address:

843-537-7080 Telephone:

3. Contractor Information

Terry Environmental Services, Inc. Name:

P.O. Box 25, Summerville, South Carolina 29484 Address:

843-873-8200 Telephone: Certification: UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Name: Shealy Environmental Services Inc. (Shealy)

106 Vantage Point Drive, Columbia, SC 29172 Address:

Telephone: 803-791-9700

32010 Certification:

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	



SCDHEC UST PERMIT #02314

Other Releases at this site? Yes		No XXXX
If yes, Date Release Reported to SCDHEC	n/a	
Status of Release:	n/a	
No Further Action Date:	n/a	

7. Regional Geology and Hydrogeology

The Maruti Kundal (former Windsor Mart) site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)

B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1,000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. The Site Potentiometric Map (Figure 5, Section J), based on the limited wells gauged, indicates that groundwater flow is generally to the northwest.

C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.



E. GROUNDWATER DATA

1. Groundwater Sampling Methodology

TERRY conducted a limited sampling event at the site on January 3, 2017. As directed by SCDHEC, monitoring wells MW-1, MW-2R, MW-3, MW-4, MW-7, MW-8, MW-13, MW-15, MW-19, MW-20, MW-23, RW-1, and RW-2 were sampled. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. The surface water samples (SW-1 and SW-2) were not requested to be collected.

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. The wells at the site had not been sampled within the past twelve months; however, as directed by SCDHEC the wells with screens that bracketed the water table were not purged. A clean purge pump with new disposable tubing was utilized for purging the deep wells with large casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs).

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 3.1. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for each day of sampling and analyzed for VOCs. One field duplicate was collected and analyzed for VOCs as less than twenty samples were collected during this event.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 3.1 and the site-specific Addendum. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl tertiary butyl ether, 1,2-Dichloroethane, Oxygenates, and Ethanol.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 3.1. By-products were disposed of via processing through a granular-activated-carbon (GAC) unit in accordance with the NPDES General Permit No. SCG830000. The field measurement equipment was properly calibrated prior to the sampling event and verified after four (4) hours of use and at the completion of the event. Since sampling was completed within

four hours, only one field verification was conducted. The calibration data for the sampling event is provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B. The groundwater measurements collected during the sampling event for the no-purge wells are provided as follows:

SECTION E -1 GROUNDWATER MEASUREMENTS (NO PURGE SAMPLING) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

Well	Date	рН	Specific Conductance	Water Temperature	Turbity	Dissolved Oxygen
Units		su	mS/cm	°C	NTU	mg/L
02314-MW1	1/3/2017	5.51	0.294	22.3	46.2	1.37
02314-MW2R	1/3/2017	6.04	0.068	20.7	0.8	2.22
02314-MW3	1/3/2017	5.41	0.066	22.5	36.1	1.20
02314-MW4	1/3/2017	5.02	0.143	22.3	3.4	2.93
02314-MW7	1/3/2017	4.39	0.078	22.7	17.7	1.61
02314-MW8	1/3/2017	4.83	0.042	22.4	0.0	1.71
02314-MW13	1/3/2017	4.89	0.051	22.3	0.3	1.28
02314-MW15	1/3/2017	5.78	0.034	20.6	14.5	5.08
02314-MW19	1/3/2017	5.00	0.354	23.0	158	1.21
02314-MW20	1/3/2017	4.47	0.133	22.9	144	1.49
02314-MW23	1/3/2017	4.88	0.059	22.4	40.3	1.84
02314-RW1	1/3/2017	4.26	0.243	21.4	8.1	2.62
02314-RW2	1/3/2017	5.01	0.139	21.6	7.8	2.64

NOTES/KEY:

su = standard unit

mS/cm = milliSiemens per centimeter

NTU = nephelometric turbity units

mg/L = milligrams per liter

2. Purging Methodology

Not Applicable. No wells were purged during this scope of work.



3. Free Product Measurements

No free-phase petroleum was measured during the sampling event.

F. AFVR INFORMATION

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, TERRY conducted a comprehensive groundwater sampling event on January 3, 2017 in accordance with the SCDHEC UST QAPP, Revision 3.1 and the associated site-specific work plan submitted in December 2016.

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A and 4B. Based on the analytical data from the limited sampling event, groundwater contamination is present near the dispenser islands (MW-1, MW-2R, MW-3, MW-4, MW-7, MW-8, MW-15, RW-1, and RW-2), the UST basin (MW-13, MW-19, and MW-20), and down gradient to the northwest (MW-23).

The current analytical data in comparison to the September 2014 analytical data indicates that the multiple AFVR Events conducted between July 2015 and September 2016 AFVR Event were successful at removing free-phase product, recovering contaminant mass, and reducing contaminant concentrations in the source area. As such, it is recommended to conduct additional 96-hour AFVR events on the monitoring/recovery well network in the source area.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Groundwater Potentiometric Data - Attached

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Attached

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9H

	G 1	TOC	Screened	Depth to	Depth to	Product	Water Table
Well #	Sample	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation
	Date	ft	ft	ft	ft	ft	ft
	3/19/1997			13.70	n/a	n/a	159.58
	6/17/1997	1		16.07	n/a	n/a	157.21
0001113	12/9/2013	1.72.20	10. 20	20.65	17.31	3.34	152.63
02314-MW1	9/26/2014	173.28	10 to 20	19.60	16.82	2.78	153.68
	2/2/2015	1			Free Produ	uct (1.20 ft)	•
	1/3/2017	1		15.96	n/a	n/a	157.32
	6/17/1997			16.04	n/a	n/a	84.02
02314-MW2	12/9/2013	100.06	10 to 20		Could I	Not Find	
	9/29/2014	1			Could I	Not Find	
	9/29/2014			17.60	n/a	n/a	156.32
02314-MW2R	2/2/2015	173.92	10.3-20.3	15.72	n/a	n/a	158.20
	1/3/2017	1		15.96	n/a	n/a	157.96
	6/17/1997			13.64	n/a	n/a	157.79
	12/9/2013	1		15.86	n/a	n/a	155.57
02314-MW3	9/26/2014	171.43	10 to 20	15.65	14.70	0.95	155.78
	2/2/2015	1			Free Prod	luct (1.0 ft)	
	1/3/2017	1		13.45	n/a	n/a	157.98
	6/17/1997			15.75	n/a	n/a	157.64
	12/9/2013	1		18.80	16.91	1.89	154.59
02314-MW4	9/26/2014	173.39	10 to 20	19.43	16.32	3.11	153.96
	2/2/2015				Free Produ	uct (0.80 ft)	
	1/3/2017	1		15.69	n/a	n/a	157.70
	9/29/2014			18.51	n/a	n/a	156.46
02314-MW5	2/2/2015	174.97	9.9 to19.9	17.10	n/a	n/a	157.87
	1/3/2017				Not C	Gauged	
	9/29/2014			18.17	n/a	n/a	156.40
02314-MW6	2/2/2015	174.57	10.1 to 20.1	16.55	n/a	n/a	158.02
	1/3/2017				Not C	Gauged	
	9/29/2014			18.09	17.86	0.23	156.11
02314-MW7	2/2/2015	174.20	10.3 to 20.3		Free Produ	uct (0.27 ft)	
	1/3/2017			16.37	n/a	n/a	157.83
	9/29/2014			17.55	n/a	n/a	156.24
02314-MW8	2/2/2015	173.79	10.3 to 20.3	16.11	n/a	n/a	157.68
	1/3/2017			15.93	n/a	n/a	157.86
	9/29/2014			16.84	n/a	n/a	155.88
02314-MW9	2/2/2015	172.72	9.9 to19.9	14.73	n/a	n/a	157.99
	1/3/2017				Not C	Gauged	
	9/29/2014			15.85	n/a	n/a	156.24
02314-MW10	2/2/2015	172.09	10.3 to 20.3	14.19	n/a	n/a	157.90
	1/3/2017				Not C	Gauged	
	9/29/2014			15.95	n/a	n/a	156.12
02314-MW11	2/2/2015	172.07	10.1 to 20.1	14.30	n/a	n/a	157.77
	1/3/2017				Not C	Gauged	
	9/29/2014			16.40	n/a	n/a	156.14
02314-MW12	2/2/2015	172.54	10.3 to 20.3	14.76	n/a	n/a	157.78
	1/3/2017	<u> </u>			Not C	Gauged	

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 TERRY PROJECT #2171.9H

*** 11 //	Sample	TOC	Screened	Depth to	Depth to	Product	Water Table
Well #	Date	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation
		ft	ft	ft	ft	ft	ft
	9/29/2014			17.20	n/a	n/a	155.44
02314-MW13	2/2/2015	172.64	10.3 to 20.3	15.55	n/a	n/a	157.09
	1/3/2017			14.95	n/a	n/a	157.69
	9/29/2014			16.75	n/a	n/a	156.13
02314-MW14	2/2/2015	172.88	10.3 to 20.3	15.15	n/a	n/a	157.73
	1/3/2017				Not C	auged	
	9/29/2014			17.90	n/a	n/a	155.95
02314-MW15	2/2/2015	173.85	10.3 to 20.3	15.85	n/a	n/a	158.00
	1/3/2017			15.88	n/a	n/a	157.97
	11/19/2014			21.50	n/a	n/a	155.47
02314-MW16	2/2/2015	176.97	16.0 to 26.0	18.69	n/a	n/a	158.28
	1/3/2017				Not C	Gauged	
	11/6/2014			20.10	n/a	n/a	156.03
02314-MW17	2/2/2015	176.13	10.4 to 20.4	17.79	n/a	n/a	158.34
	1/3/2017	1			Not C	Gauged	•
	11/6/2014			19.74	n/a	n/a	155.85
02314-MW18	2/2/2015	175.59	14.6 to 24.6	17.40	n/a	n/a	158.19
	1/3/2017	1			Not C	Gauged	•
	11/6/2014			16.32	n/a	n/a	155.18
02314-MW19	2/2/2015	171.50	12.3 to 22.3	14.15	n/a	n/a	157.35
	1/3/2017	1		13.95	n/a	n/a	157.55
	11/6/2014	ì		16.63	n/a	n/a	155.19
02314-MW20	2/2/2015	171.82	12.2 to 22.2	14.35	n/a	n/a	157.47
	1/3/2017	1		14.30	n/a	n/a	157.52
	2/2/2015			16.55	n/a	n/a	157.42
02314-MW21	1/3/2017	173.97	13.7 to 23.7		Not C	Gauged	
	2/2/2015			14.65	n/a	n/a	157.30
02314-MW22	1/3/2017	171.95	12 to 22			auged	
	2/2/2015			13.72	n/a	n/a	157.31
02314-MW23	1/3/2017	171.03	11.2 to 21.2	13.65	n/a	n/a	157.38
	2/2/2015			12.54	n/a	n/a	157.24
02314-MW24	1/3/2017	169.78	11 to 21	12.0		Gauged	107121
	2/2/2015			13.00	n/a	n/a	157.08
02314-MW25	1/3/2017	170.08	11 to 21	13.00		Gauged	157.00
	2/2/2015			12.24	n/a	n/a	156.97
02314-MW26	1/3/2017	169.21	10.4 to 20.4	12,27		Fauged	150.57
	2/2/2015			11.81	n/a	n/a	157.14
02314-MW27	1/3/2017	168.95	10 to 20	11.01		Gauged	157.17
02314-RW1	1/3/2017	Unknown	10 to 30	16.11	n/a	n/a	n/a
02314-RW1 02314-RW2	1/3/2017	Unknown	10 to 30	15.47	n/a	n/a	n/a
02317-IX W 2	9/29/2014	CHKHOWH	10 10 30	16.97	n/a	n/a	156.62
02314-DW1	2/2/2015	173.59	49.6 to 54.6	15.37	n/a	n/a	158.22
02314-DW1		173.39	+5.0 10 54.0	15.57		n/a Bauged	138.22
	1/3/2017				Not C	raugeu	

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA

MARUTI KUNDAL (FORMER WINDSOR MART)

CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY	PRO	JECT	#2171	.9H
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	Sample	TOC	Screened	Depth to	Depth to	Product	Water Table	
Well #	Date	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation	
	Date	ft	ft	ft	ft	ft	ft	
02314-DW2	2/2/2015	174.37	44.6 to 49.6	16.59	n/a	n/a	157.78	
02314-DW 2	1/3/2017	174.37	44.0 10 49.0		Not C	auged		
02314-DW3	2/2/2015	169.93	44.6 to 49.6	13.72	n/a	n/a	156.21	
02314-DW3	1/3/2017	109.93	44.0 10 49.0	Not Gauged				

Notes:

All Data Prior to December 2013 collected by others

 $Corrected\ elevation = Water\ table\ elevation + [(0.77)(free\ product\ thickness)]$

 $^{^{(1)}}$ TOC = Top of casing relative to an assumed data

^{* =} Measured relative to TOC

^{**}Corrected Elevation calculated using following equation:

Well # Sample Beizene Toloron Ethyl Sylenes Dale								GROUND	TAI WATER L	BLE 3 ABORATO	ORY DATA	١							
No. Part									WINDSO	OR MART									
Well Sample Disc Beautiful Disc Beautiful Disc Di								CHE	RAW, SOU	TH CARC	DLINA								
Well # Date								TE	RRY PRO,	JECT #217	1.9H								
Units								SCD	HEC UST	PERMIT #	02314								
RISI_			Benzene	Toluene		Xylenes		MTBE	1,2-DCA	EDB	Lead	TAME	TBA	DIPE	ETBE	ETBA	Ethanol	TAA	TBF
1,14 1,15 1,16	-		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
1997 1,279 6,519 515 6,470 367 c1,000				1,000		10,000	25	40	5	0.05	15	128	1,400	150	47	N/A	10,000	240	N/A
Property Property																			
1/2017 15,000 46,000 2.00 17,000 440J 500 500 5.00 5.00 5.00 5.00 4.0			1,270	6,510	515	6,470	367	<1,000											
1/3/19/17 15,000 46,000 2,800 17,000 440,00 5.5 13.7																			
02314-MW2R 139/0315 139/031										Fre	e Product (2.7								
02314-MW2 19/90/18 11,000 18,000 1,000 15,000 380 200 200 2,000 4,000 871 200 4,000 200 200 200 2,000 4,000 871 200 4,000 20,000												<5,000	<10,000	280J		<10,000	480,000	28,000	<2,500
P9/39/14 A-400 18.00 1.600 8.00 330 c200 c300 c300 c4.000 c4.000 c4.000 c30.000 c4.000 c30.000 c4.000 c30.000 c4.000 c			29	1.25	1.13	136.1	5.5	13.7											
02314-MW2R 02314-MW2R 02314-MW3																			
02314-MW2 11/3017 11,000 40,000 2,600 15,000 380 200 200 2,000 4,000 1301 200 4,000 2,000			ć 100	200.01	1.000	0.000	220	-200	-200	_	Could Not Fin		-1.000	621	-200	-1.000	-20.000	6 000	-1.000
02314-MW3 129/2013 18.5 102 27.6 374 13.4 <1.00 <1.00 <0.010 <1.00 <1.00 <0.00 <1.00 <5.00 <5.00 <5.00 <5.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.																		6,900	<1,000
02314-MW3 02314-MW3											_							36,000	<1,000
02314-MW3/DUP 11																		20.4	<50.0
02314-MW3/DUP 10/2017 11 17 36 260 28 <5.0 <5.0 <50 <100 <5.0 <5.0 <5.0 <100 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <			18.5	102	27.6	3/4	13.4	<1.00	<1.00				<10.0	<5.00	<5.00	<100	<1,000	20.4	<50.0
02314-MW3 02314-MW4 02314-MW4 02314-MW4 02314-MW4 02314-MW4 02314-MW4 02314-MW4 02314-MW4 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW6 02314-MW7 02314-MW7 02314-MW7 02314-MW8 0231				17	26	260	10	-60	-60	I Pro	Product (0.9		-100	-6.0	-60	-100	-500	53J	<25
02514-MW4 129/2013 5,436 14,300 1,960 19,160 1,990 2,500																		51J	<25
02314-MW4 1299/2014 15,000 42,000 3,000 17,000 470 380 < 500 < 5,000 < 10,000 660 < 500 < 10,000 2,500,000									-						-			311	<
02314-MW6 929/2014 13 110 16 100 4.8 <1.0 <1.0 <1.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0			29400	14,500	1,700	17,500	1,050	42,500		Fre	e Product (1.8								
02314-MWS 929/2014 13 110 16 100 4.8 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0																			
02314-MW10			15.000	42,000	3.000	17.000	4701	3801	<500			,	<10.000	660	<500	<10.000	2.500.000	61,000	<2.500
02314-MW6 929/2014 1.5 8.8 2.6 21 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0			13	110	16	100		<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-MW10											Not Sampled								
02314-MW1 1/2/2017 1,100	9/29/2	V2014	1.5	8.8	2.6	21	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	60	<5.0
02314-MW1	1/3/2	2017									Not Sampled								
1/2/2017 6, 100 35,000 3,200 20,000 700 <500 <5,000 <1,0,000 3,001 <500 <10,000 <500,000 <500 <5,000 <1,0,000 3,001 <500 <10,000 <50,000 <50,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,000 <500,00	9/29/2	/2014								Fre	e Product (0.2	3 ft.)							
02314-MW10 02314-MW10 02314-MW10 02314-MW11 02314-MW110 0231	1/3/2	2017	6,100	35,000	3,200	20,000	700	<500	<500			<5,000	<10,000	300J	<500	<10,000	<50,000	32,000	<2,500
15/2017 1,700 13,000 2,000 12,000 210 <100 <10 <2.00 <100 <2.000 <100 <2.000 <100 <2.000 <10.00 <2.000 <10.00 <2.000 <10.00 <2.000 <10.00 <10.00 <2.000 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00 <10.00	9/29/2	/2014	3,700	12,000	1,300	7,200	180J	<200	<200			<2,000	<4,000	<200	<200	<4,000	<20,000	6,700	<1,000
02314-MW10				13,000		12,000	230	<100	<100			<1,000	<2,000	<100	<100	<2,000	<10,000	7,100	<500
02314-MW10 9/29/2014 0.0 0.1			0.51J	3.0	0.54J	3.0	<1.0	<1.0	<1.0				<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-MW10											_								
1/3/2017 1/3/2017			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0				<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-MW1											Not Sampled								
02314-MW12 9/29/2014 0.38 0.0 0.1 0.0 0.0 0.1 0.0 0.1 0.1 0.0 0.1 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0				<20	<1.0	<1.0	<20	<100	<20	<5.0
1/2/2017 1/2/2017			0.201	-1.0	-10		-1.0	-10	-10	_	Not Sampled		-20	-1.0	-10	-20	-100	-	- 46
02314.MW15 9/29/2014 0.891 12,000 17,00 8.600 300 1101 < 200 < 2,000 <4,000 240 <200 <4,000 <40,000 <20,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,000 <40,0			0.38J	<1.0	<1.0	5,0	<1.0	<1.0	<1.0		Not Come to		<20	<1.0	<1.0	<20	<100	51	<5.0
02314-MW15 9292014 2,800 12,000 750 5.900 120J <200 <100 <100 <100 <100 <100 <100 <100			< 100	21.000	1.700	0.600	200	1101	-200		_		-1.000	240	-200	-1.000	-20,000	E 400	-1.000
02314-MW14 929/2014 0.89J 5.9 0.99J 6.9 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <1.0 <1.0 <1.0 <20 <1.0 <1.0 <20 <1.0 <1.0 <20 <1.0 <1.0 <20 <1.0 <20 <1.0 <20 <1.0 <1.0 <20 <1.0 <1.0 <20 <1.0 <1.0 <20 <1.0 <1.0 <20 <1.0 <1.0 <1.0 <20 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.										_								5,400	<1,000
UZ314-MW15 9/29/2014 2,800 12,000 750 5,900 120J <200 <200 <2,000 <4,000 <200 <200 <40.00 <200 <40.00 <200 <40.00 <200 <40.00 <200 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40.00 <40										_	_							10,000	<500 <5.0
02314-MW/5 9/29/2014 2,800 12,000 750 5,900 120J <200 <200 < 2,000 <4,000 <200 <400 <4000 <20,000			0.890	3.9	0.990	0.9	<1.0	<1.0	<1.0				<.20	<1.0	<1.0	<20	<100	100	<3.0
			2 900	12,000	750	5,000	1201	-200	-200				<4.000	-200	-200	<4.000	<20,000	5,100	<1,000
																		37,000	<1,000
1000000 10 10 10 10 10 10 10 10 10 10 10																		<20	<5.0
0231+MW16			~2.0	×1.0	VI.0	×1.0	VI.0	×1.0	×1.0				-20	×1.0	×1.0	-120	100	-20	-5.0
11007004 210 210 210 210 210 210 210 210 210 210			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0				<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-MW17			41.0	31.0	310	41.0	310	41.0	41.0		Not Sampled		440	41.0	41.0	100	<100	420	4000

								TAE	ILE 3									
							GROUND	WATER L		ORY DATA								
							OMO CI ID		OR MART									
							CHE	RAW, SOL		DLINA								
								RRY PRO.										
								HEC UST										
Well#	Sample Date	Benzene	Toluene	Ethyl benzene	Xylenes	Naph thalene	MTBE	1,2-DCA	EDB	Lead	TAME	TBA	DIPE	ETBE	ETBA	Ethanol	TAA	TBF
Units		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
RBSL		5	1,000	700	10,000	25	40	5	0.05	15	128	1,400	150	47	N/A	10,000	240	N/A
02314-MW18	11/6/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
0231+MW18	1/3/2017									Not Sampled								
02314-MW19	11/6/2014	4,100	15,000	1,500	8,300	320	<200	<200			<2,000	<4,000	<200	<200	4,000	78,000	<4,000	<1,000
0231+MW19	1/3/2017	5,800	19,000	1,600	8,900	230	<100	<100			<1,000	<2,000	190	<100	<2,000	1,500,000	5,400	<500
02314-MW20	11/6/2014	1,300	3,300	320	2,000	76	41	<20			<200	<400	68	<20	<400	<2,000	1,500	<100
02314-M1#20	1/3/2017	6,000	19,000	1,600	9,700	220	<100	<100			<1,000	<2,000	75J	<100	<2,000	<10,000	18,000	<500
02314-MW21	2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.019	6.7J	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
025177111721	1/3/2017									Not Sampled								
02314-MW22	2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.019	19	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
025147411122	1/3/2017									Not Sampled								
02314-MW23	2/2/2015	1,600	5,000	540	4,000	<100	<100	<100	< 0.019	16	<1,000	<2,000	<100	<100	<2,000	<10,000	2,700	<500
02017111120	1/3/2017	900	2,200	300	2,300	62	<50	<50			<500	<1,000	<50	<50	<1,000	<5,000	2,300	<250
02314-MW24	2/2/2015	2.1	<1.0	<1.0	0.81J	<1.0	<1.0	<1.0	< 0.019	4.2J	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017	_								Not Sampled								
02314-MW25	2/2/2015	0.34J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.020	34	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017									Not Sampled								
02314-MW26	2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.019	<10	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017									Not Sampled								
02314-MW27	2/2/2015	3.1	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<0.019	9.8J	<10	<20	<1.0	<1.0	<20	<100	24	<5.0
	1/3/2017	0.207	0.051	-10	0.207	-1.0	-1.0	-10		Not Sampled	-10	-20	-1.0	-10	-00	-100	-20	-60
02314-DW1	9/29/2014	0.20J	0.85J	<1.0	0.38J	<1.0	<1.0	<1.0		Not Sampled	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017 2/2/2015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.020	Not Sampled	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-DW2	1/3/2017	VI.0	×1.0	×1.0	<1.0	<1.0	×1.0	×1.0	<0.020	Not Sampled	<10	<20	×1.0	N1.0	<20	<100	<.20	43.0
	2/2/2015	46	7.8	0.61J	24	1.3	<1.0	<1.0	< 0.019	<10	<10	<20	<1.0	<1.0	<20	<100	24	<5.0
02314-DW3	1/3/2017	40	7.0	0.013	24	1,3	×1.0	V1.0	40.019	Not Sampled	×10	420	K1.0	\$1.0	420	<100	24	4,5,0
02314-RW1	1/3/2017	13,000	43,000	2.800	19,000	550	310J	<500		sampicu	280J	<10,000	1,400	<500	<10,000	<50,000	49,000	<2,500
02314-RW2	1/3/2017	7,900	24,000	2,200	13,000	280	150J	<200			<2,000	<4,000	220	<200	<4,000	140,000	15,000	<1,000
- COLUMN TO THE	12/9/2013	<1.00	<1.00	<1.00	<3.00	<5.00	<1.00	<1.00	< 0.010		<5.00	<10.0	<5.00	<5.00	<100	<1,000	<20.0	<50.0
02314-SW1	9/26/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017									Not Sampled								
	12/9/2013									Dry								
02314-SW2	9/26/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017									Not Sampled								
02314-FB1	1/3/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-TB1	1/3/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0

02314-TB1 1/N/X
NOTES/KEY:
-- = Not tested; not analyzed
RBSL = Risk-Based Screening Level
ugfl. = militgrams per liter
ngfl. = militgrams per liter
J = Estimated value
DUP = Duplicate

Bold lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

MTBE = Methyl tortiary butyl ether
1,2.1CA = 1,2.3bcthorouthau
EDBs = 1,2.5bcthorouthau
EDBs = 1,2.5bcthorouthau
EDBs = 1,2.5bcthorouthau
TAME = tamyl methyl ether or tert-Anyl methyl ether
TAME = tamyl methyl ether or tert-Anyl methyl ether
TBA = t-t-Intanco t cert-Butyl Alcoholo
DIPE = diisopropyl Ether or Isopropyl ether

ETBE = Ethyl ten-busyl ether
ETBA = ethyl ten-businel or 3,3-Dimethyl-1-butanol
TAA = ten-amyl alcohol
TBF = tre-busyl formate
B = Field Blank
TB = Trip Blank

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

4. Site Potentiometric Maps

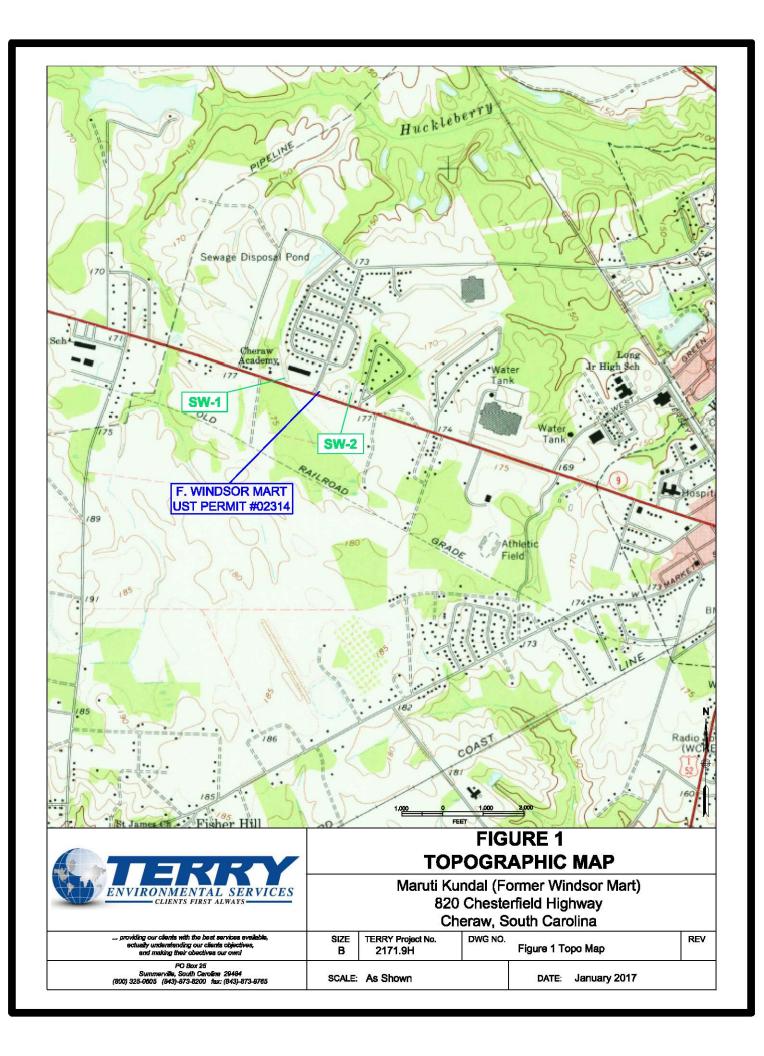
Figure 5 Site Potentiometric Map - Attached

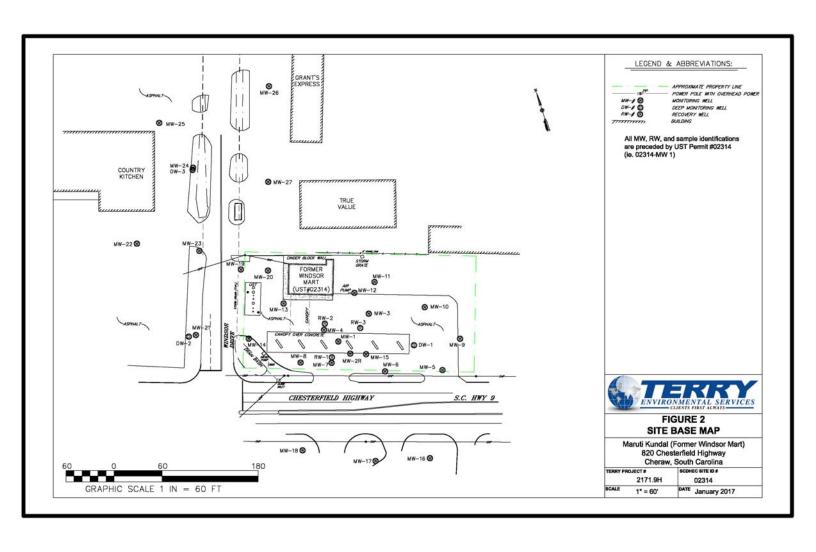
5. Geologic Cross Sections

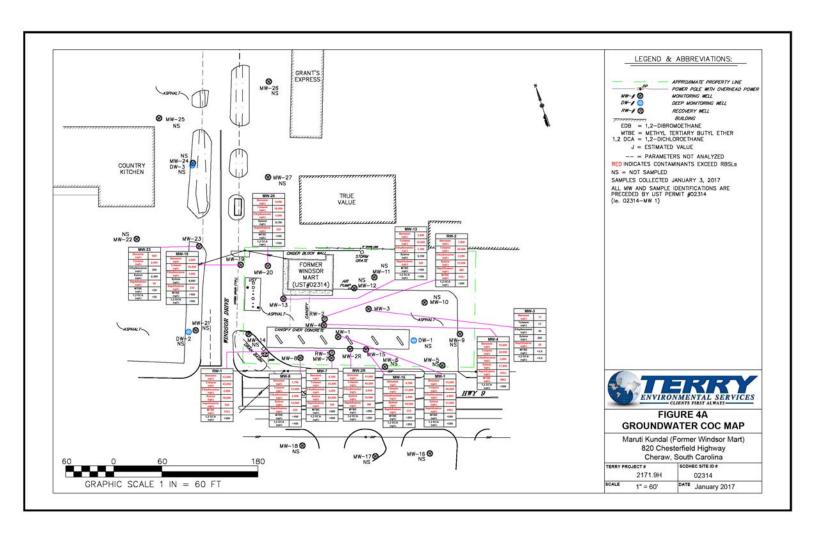
Figure 6 Geologic Cross Sections - Not Applicable

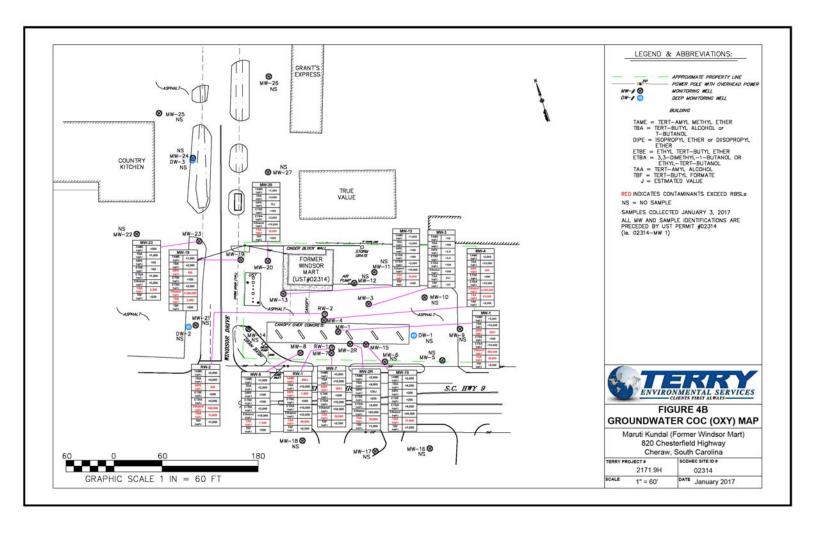
6. Predicted Migration and Attenuation of CoCs

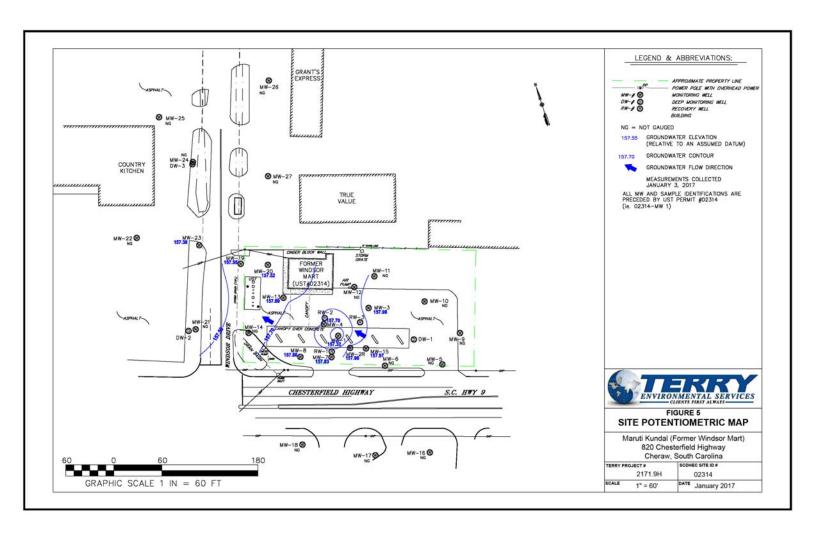
Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable











K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

7. Appendix G: Disposal Manifest

8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

TER	RYEI	vironment TS FIRST ALWAYS	tal .	Services	5						Summervil	P.O. Box 2: le, SC 2948- 00-325-060:
	Site Specific	Information				N.	lonitor	ing W	ell Infor	mati		
Terry Proje	ect ID	2171.9H						ell ID			- Mw-i	
SCDHEC Permi	it No.	02314										2 DC.
Project !	Vame Mar	uti Kundal (Former V	Windso	or Mart)		Test	ing Parai	neters			n, MTBE, 1	
	Date	1 /3 /2017					***		Oxygenates, & Eth			MOI
Field Perso	onnel	NIT UK					Well Dia	meter	2		in	
General We	ather	ulas-				Sc	reened In	terval	10-20		ft	TAG BOTTOM O
Ambient Air Temper		00			Total	Well Depi	th (neare	st 0.1')	20.0		ft	WELL TO VERIFY
	Quality A	ssurance			Depth to Gr	oundwate	r (nearesi	0.01')	15.94		ft	WELL
pH Meter	Horiba U-52-2	Conductivity	Meter	Horiba U-52-2	,	Length of	Water Co	olumn	4.04		ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial N	umber	VWKAUMKJ		1 Casing	Volume (0.163)	/		ft	BELOW TO
Calibration Constant	4.00	Calibration Co	nstant	4.49 mS/cm	3	Casing V	olumes (0.489)			gals	NEAREST 0.1'
Calibration Constant	6.86	6.86 Calibration Constant 53.0 mS/c				Total 1	Volume P	urged			gals	0.1
Calibration Constant	9.18	Calibration Co	nstant	58.7 mS/cm	Purge Techn	ique Utili	zed (baile	r, pump)			20.0
Last Calibration (time)	1105	Last Verification	√(time)		Well	Yield	Low		Medium		High \square	20.
Volume	(gal) intra	Bugai										
Time (mili	itary) 1135	. 1										
pH	1 (su) 551											
Spec Conductivity (mS	S/cm) 0.294											
Water Temperature	(°C) 22,3											
Turbidity (?	VTU) 44.2											41
Dissolved Oxygen (n												
	Well Condition	n Information					Addi	tiona	l Comme	ents		
-overall condition accept	table?				STRI	INO ON	OR					100000
-overall condition accept -well cap accept	table?					J						
-manhole and cover accept												
	table?											
-area	safe?											
-other com	ments											

TER	CLIENT	vironmental .	Services	<u>S</u>			Summervill	P.O. Box 2: le, SC 29484 00-325-060
	Site Specific	Information		M	onitoring W	Vell Informat	ion	
Terry Proje	ect ID	2171.9H			Well ID	02314	4- MW-2	R
SCDHEC Perm	it No.	02314						
Project !	Name Maru	ti Kundal (Former Windso	or Mart)	Testin	ng Parameters	BTEX, Nap	n, MTBE, T ates, & Eth	
	Date	1 /3 /2017				Oxyger	iates, & Eth	anoi
Field Person	onnel	MT VK			Well Diameter	Z	in	T1.0
General We	rather	W years dout	Y	Ser	eened Interval	10.3-203	ft	TAG BOTTOM O
Ambient Air Temper		120.	Ü	Total Well Depth	(nearest 0.1')	20.3	ft	WELL TO
	Quality A:	ssurance		Depth to Groundwater	(nearest 0.01')	15.94	ft	VERIFY WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length of V	Vater Column	4.34 ,	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing V	olume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Vo	lumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total V	olume Purged		gals	0.1
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utiliz	ed (bailer, pum	5)		agent held or a grown
Last Calibration (time)	1105	Last Verification √(time)		Well Yield	Low	Medium	High \square	203
Volume	(gal) in 1	Some						
Time (mil	itary) 1205							
pH	1 (su) 6.04							
Spec Conductivity (m.	S/cm) 0.066							
Water Temperature	e(°C) 207							
Turbidity (NTU) O.S							
Dissolved Oxygen (n								
	Well Condition	Information			Additiona	l Comments		
-overall condition accep	table? y			GHZONG ON	OR			
-well cap accep	U.			U				
-manhole and cover accep	table?							
-well pad accep	table?							
-area	safe?							
-other com	ments							

TER	CLIEN	vironmental	Services	<u>s</u>				P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			Monitoring W	Vell Informa		
Terry Proje	ect ID	2171.9H			Well ID	0231	14- MW-	3
SCDHEC Perm	it No.	02314						
Project !	Name Maru	uti Kundal (Former Winds	or Mart)] 7	esting Parameters		ph, MTBE, 1 nates, & Eth	
	Date	/ 3 /2017				Oxyge	nates, & Etn	anoi
Field Perso	onnel	MTJK			Well Diameter	2	in	71.0
General We	eather	plouchy			Screened Interval	10-20	ft	TAG BOTTOM OF
Ambient Air Temper		60.		Total Well D	Pepth (nearest 0.1')	10.0	ft	WELL TO VERIFY
	Quality A	ssurance		Depth to Groundw	vater (nearest 0.01')	13.45	ft	WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length	of Water Column	12.55	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casii	ng Volume (0.163)	/	ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casin	g Volumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	Tot	al Volume Purged		gals	0.1	
Calibration Constant	9.18	Calibration Constant		Purge Technique U	tilized (bailer, pum	p)		20.0
Last Calibration (time)	1105	Last Verification √(time)		Well Yield	Low	Medium	High \square	10.0
Volume	(gal) into	Souple						
Time (mil	itary) 1235							
pH	I (su) 541							
Spec Conductivity (m.	s/cm) 0.00ie							
Water Temperature	2 (°C) 22.5							
Turbidity (1	NTU) 36.1							
Dissolved Oxygen (n								
	Well Condition	n Information			Additiona	l Comments	3.	
-overall condition accept	table?			DUP(12	-37			
-well cap accept	table?)				
-manhole and cover accept	table?			Strong o	due.			
-well pad accept	table?			J				
	safe?							
-other com	ments							

TER	CLIEN	vironmental TS FIRST ALWAYS	Services	5			Summervill	P.O. Box 25 e, SC 29484 00-325-0605
	Site Specific	Information		Me	onitoring W	ell Informa		
Terry Proje	ct ID	2171.9H			Well ID	02314 - MW-4		
SCDHEC Permi	t No.	02314						2 DC4
Project N	Name Mar	uti Kundal (Former Windse	or Mart)	Testin	g Parameters		oh, MTBE, 1, nates, & Etha	
	Date	(/3 /2017				Oxygen	iates, & Eth	anoi
Field Perso	onnel	MUK		J	Vell Diameter	2	in	TAG
General Wea	ather	max		Scre	ened Interval	10-20	ft	воттом он
Ambient Air Temper	20122022	60.		Total Well Depth		20.0	ft	WELL TO VERIFY
	Quality A	ssurance		Depth to Groundwater	(nearest 0.01')	15.69	ft	WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Length of W	Vater Column	4.31	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing Ve	olume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Vo.	lumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Ve	lume Purged.		gals	
Calibration Constant	9.18	Calibration Constant		Purge Technique Utilize	ed (bailer, pumj	p)		200
Last Calibration (time)	1105	Last Verification √(time)		Well Yield	Low	Medium 🗆	High \square	
Volume	(gal) intre	18angar						
Time (mili	itary) 1145							
pH	(su) 602							
Spec Conductivity (mS	S/cm) 0.143							
Water Temperature	(°C) 223							
	NTU) 3.4							
Dissolved Oxygen (n								
	Well Condition	n Information			Additiona	l Comments		
-overall condition accept	table?			STRONG DE	fur			
-well cap accept				J				
-manhole and cover accept	table?			- Mile				
-well pad accept	table?							
-area	safe?							
-other com	ments							

TER	15		vironn TS FIRST ALW		Services	5				Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Sit	e Specific	Information	n			N	Ionitoring W	Vell Informat	ion	
Terry Proje	ct ID		217	71.9H				Well ID		4- MW-7	
SCDHEC Permi	t No.		02	2314							
Project 1	Vame	Mari	uti Kundal (Fo	ormer Windso	or Mart)	1	Test	ing Parameters	BTEX, Nap	n, MTBE, T nates, & Eth:	
	Date		1 /3	/2017					Oxygei	lates, & Eth	alioi
Field Perso	onnel	y	mt 1	_		Well Diameter			2	in	T. C
General We	ather		forial				Sc	reened Interval	10.3-203	ft	TAG BOTTOM OI
Ambient Air Temper	ature		ua.			Total	Well Dep	th (nearest 0.1')	20.3	ft	WELL TO VERIFY
		Quality A	ssurance			Depth to G	roundwate	er (nearest 0.01')	10.37	ft	WELL
pH Meter	Ho	riba U-52-2	Cond	uctivity Meter	Horiba U-52-2		Length of	Water Column	393	ft	DEPTH, WRITE
Serial Number	VW	KAUMKJ	S	erial Number	VWKAUMKJ		1 Casing	Volume (0.163)		ft	BELOW TO
Calibration Constant		4.00	Calibra	tion Constant	4.49 mS/cm	3	Casing V	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant		6.86	Calibra	53.0 mS/cm		Total	Volume Purged		gals	0	
Calibration Constant		9.18					ique Utili	zed (bailer, pum	p)		20.3
Last Calibration (time)	- (1	05	Last Verific	cation $\sqrt{\text{(time)}}$		Well	Yield	Low	Medium	High \square	
Volume	(gal)	intred	Souple								
Time (mili			1								
pH	l (su)	0.078	4								
Spec Conductivity (m.			d								
Water Temperature	(°C)	227									
Turbidity (VTU)	17.7									
Dissolved Oxygen (n											
	Well	l Condition	n Informati	on				Additiona	l Comments		
-overall condition accept	table?	s				Sli	ont	othe			
-well cap accept	table?	U					1				
-manhole and cover accept	table?										
-well pad accept	table?										
-area	safe?							4			
-other com	ments										

TER	RYEN	vironmental .	Services	<u>S</u>			Summervil	P.O. Box 2: le, SC 29484 00-325-060
	Site Specific	Information			Monitoring W	Vell Informa	tion	
Terry Projec	ct ID	2171.9H			Well ID		4- MW-8	3
SCDHEC Permi	t No.	02314				DTEV N	L MEDE 1	1.2-DCA
Project N	Maru Maru	ıti Kundal (Former Windso	r Mart)		Testing Parameters		oh, MTBE, 1 nates, & Eth	
3	Date	1 / 3 /2017				Oxyge	nates, & Eth	anor
Field Perso	nnel	MILK			Well Diameter	2	in	TAG
General Wed	uther	classy			Screened Interval	10.3-20.3	ft	воттом о
Ambient Air Tempere	ature	40.0		Total Well I	Depth (nearest 0.1')	203	ft	WELL TO VERIFY
	Quality A.	ssurance		Depth to Grounds	vater (nearest 0.01')	15.93	ft	WELL
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2	Lengti	h of Water Column	4.37	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casi	ing Volume (0.163)		ft	BELOW TO
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casin	ng Volumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	To	tal Volume Purged		gals	
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique	Utilized (bailer; pum	p)		20.3
Last Calibration (time)	1105	Last Verification √(time)		Well Yield	Low	Medium	High 🗆	203
Volume	(gal) instral	Songe						
Time (mili	tary) vis	0						
pН	(su) 4.83							
Spec Conductivity (mS	(cm) 0,042							
Water Temperature	(°C) 224							
Turbidity (N	VTU) O.O							
Dissolved Oxygen (m								
	Well Condition	•			Additiona	l Comments		
-overall condition accept	able? topoxias	many by care		Slign	+ other			
-well cap accept	able? Durio	mapy by case						
-manhole and cover accept	able?							
-well pad accept	able?							
-area	safe?							
-other com	nents							

TER		CLIENT	TS FIRST ALWA	i YS	Services	5				1	Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Sit	e Specific I	Information	n			M	lonitoring	Well Info	rmatio		
Terry Proje	ect ID		217	71.9H		Well ID				02314 - MW-B		
SCDHEC Permi	it No.		02	2314								
Project !	Name	Maru	iti Kundal (Fo	ormer Windso	or Mart)	1	Testi	ing Paramete	PFC	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol		
	Date		1/3/2017						0	xygenat	es, & Etn	anoi
Field Perso	onnel		put u	<				Well Diamer	er 2		in	
General We	ather		CLOVA	ix			Sci	reened Interv	al 10.3 - 2	20.3	ft	TAG BOTTOM OF
Ambient Air Temper	ature		w.	0		Total	Well Dept	h (nearest 0.	I'not DOOD		T ft	WELL TO
		Quality As	ssurance			Depth to G	roundwate	r (nearest 0.0	1) 14.95		ft	VERIFY WELL
pH Meter				uctivity Meter	Horiba U-52-2		Length of	Water Colun	m 5.35		ft	DEPTH, WRITE
Serial Number	٧V	VKAUMKJ	UMKJ Serial Number VV			1 Casing Volume (0.163)			3)		ft	BELOW TO
Calibration Constant		4.00	.00 Calibration Constant 4			3	Casing V	olumes (0.48	9)		gals	NEAREST 0,1'
Calibration Constant		6.86					Total V	olume Purg	ed /		gals	0.1
Calibration Constant		9.18		tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pump)						20.3
Last Calibration (time)		1105	Last Verification √(time)			Well Yield Low		Medium		High 🗆	00.5	
Volume	(gal)	101/21	Sample									
Time (mili	itary)	1245	1									
pH	l (su)	0.051 A	+ _									
Spec Conductivity (m.	S/cm)	4.89 W	Me									
Water Temperature	(°C)	223										
Turbidity (NTU)	0.3										
Dissolved Oxygen (n	-	1.28					9					
	Well	l Condition	i Informatio	on				Additio	nal Comm	ents		
-overall condition accept	table?	(New)				SHR	ONADO	ick				
-well cap accept	table?	U					J					
-manhole and cover accept	table?	(N)										
-well pad accept	table?											
-area	safe?											
-other com	ments											

TER	CLIEN	vironmental s	Services	<u>S</u>			Summervil	P.O. Box 2: le, SC 29484 00-325-060
	Site Specific	Information		Mo	onitoring W	Vell Informat	ion	
Terry Proje	200000000	2171.9H			02314 - MW-15			
SCDHEC Perm		02314				DTEV Novi	2 DC4	
Project	Name Maru	ti Kundal (Former Windso	or Mart)	Testin	g Parameters	BTEX, Naph, MTBE, 1,2-DCA		
	Date	/ 3 /2017			Oxygenates, & Ethanol			
Field Person	onnel	WILK		И	Vell Diameter	2	in	
General We	ather	worty		Scre	103-203	ft	TAG BOTTOM OF	
Ambient Air Temper		(2°)		Total Well Depth		20.3	ft	WELL TO
	Quality A.	ssurance		Depth to Groundwater	(nearest 0.01')	15.88	ft	VERIFY WELL
pH Meter	pH Meter Horiba U-52-2 Conductivity Meter Horiba U-52-2 Length of Water C				ater Column	4.42	ft	DEPTH, WRITE
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing Vo	/	ft	BELOW TO	
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm	3 Casing Vol		gals	NEAREST 0,1'	
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm	Total Vo		gals	V.1	
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pump		p)		20.3
Last Calibration (time)	1105	Last Verification √(time)		Well Yield	Low	Medium	High \square	
Volume	(gal) inital/	Source						
Time (mil								
pH	1 (su) 5.79							
Spec Conductivity (m.	S/cm) 0.034							
Water Temperature	(°C) 70.4							
Turbidity (NTU) 145							
Dissolved Oxygen (n	ng/L) 500							
	Well Condition	Information			Additiona	l Comments		
-overall condition accep	table?			Slight ady	_			
	table?							
-manhole and cover accep	ALASSAD PULL O							
-well pad accep	table?							
	safe?							
-other com	ments							

TER	CLIEN	vironmental	Service	2			Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information		M	lonitoring W	Vell Informa		
Terry Proje	ect ID	2171.9H			02314 - MW-17			
SCDHEC Permi	it No.	02314				DTEV NL MTDE 12 DC		
Project 1	Vame Mar	uti Kundal (Former Wind	sor Mart)	Testi	ing Parameters	BTEX, Naph, MTBE, 1,2-DO Oxygenates, & Ethanol		
	Date	1 /3 /2017				Oxyge	anor	
Field Perso	onnel	WH UK			2	in		
General We	ather	(courty		Sei	reened Interval	123-223	ft	TAG BOTTOM OI
Ambient Air Temper	HINDON HALL	wo. 0		Total Well Dept	h (nearest 0.1')	223	ft	WELL TO VERIFY
	Quality A	ssurance		Depth to Groundwate	r (nearest 0.01')	13.95	ft	WELL
pH Meter	Horiba U-52-2	Conductivity Meta	Horiba U-52-2	Length of	9.35	ft	DEPTH, WRITE	
Serial Number	VWKAUMKJ	Serial Number	vwkaumkj	1 Casing 3		ft	BELOW TO	
Calibration Constant	4.00	Calibration Constan	11 4.49 mS/cm	3 Casing V	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	6.86	Calibration Constan	11 53.0 mS/cm	Total V	olume Purged		gals	
Calibration Constant	9.18	Calibration Constan		Purge Technique Utili			High	223
Last Calibration (time)	1105	Last Verification √(tim	e)	Well Yield Low		Medium High		005
	(gal) inin	Sample						
Time (mil	itary) 1305	1						
pH	1 (su) 4.00							
Spec Conductivity (m.	S/cm) 0.354							
Water Temperature	(°C) 23.0							
	VTU) 156							
Dissolved Oxygen (n								
	Well Condition	n Information			Additiona	l Comments		
-overall condition accept	table?			Strong ONE				
-well cap accept	table?			J				
-manhole and cover accept								
-well pad accept	table?							
-area	safe?							
-other com	ments							

TER		CLIEN	TS FIRST ALWA	YS	Services	<u>S</u>			Summervill	P.O. Box 25 le, SC 29484 00-325-0605	
		e Specific	Information	1			Monitoring W	Vell Informa	tion		
Terry Proje			217	1.9H			Well ID	02314 - MW 20			
SCDHEC Perm	it No.		02	314							
Project 1	Vame	Mari	uti Kundal (Fo	rmer Windso	or Mart)	Te:	Testing Parameters		BTEX, Naph, MTBE, 1,2		
	Date		1/3	/2017				Oxygenates, & Ethanol			
Field Perso	onnel		WET JE	_			Well Diameter	7	in	-	
General We	ather		cool	y		S	creened Interval	122-22.2	ft	TAG BOTTOM OF	
Ambient Air Temper	ature		100.	0		Total Well De	pth (nearest 0.1')	22.2	ft	WELL TO	
		Quality A	ssurance			Depth to Groundwa	ter (nearest 0.01')	14.30	ft	VERIFY WELL	
pH Meter Horiba U-52-2 Conductivity Meter Horiba U				Horiba U-52-2	Length o	f Water Column	7.90	ft	DEPTH,		
Serial Number	VW	VKAUMKJ	S	erial Number	VWKAUMKJ	1 Casing	Volume (0.163)		ft	WRITE BELOW TO	
Calibration Constant		4.00	Calibration Constant 4.49		4.49 mS/cm	3 Casing	Volumes (0.489)		gals	NEAREST 0.1'	
Calibration Constant		6.86	.86 Calibration Constant 53		53.0 mS/cm	Total	Volume Purged		gals	0.1	
Calibration Constant		9.18			58.7 mS/cm	Purge Technique Uti	lized (bailer, pum	p)			
Last Calibration (time)	(105	Last Verific	ation √(time)		Well Yield Low □		Medium	High 🗆	22.2	
Volume	(gal)	ininal	Some								
Time (mil		1255	1								
pH	I (su)	4.47									
Spec Conductivity (m.	S/cm)	0.133									
Water Temperature	(°C)	229									
Turbidity (!	NTU)	144									
Dissolved Oxygen (n	ng/L)	1-49									
	Well	Condition	n Informatio	on			Additiona	l Comments			
-overall condition accept	table?	m				strong of	K		5		
-well cap accept	table?	0				J					
-manhole and cover accept											
-well pad accept	table?										
	safe?										
-other com	ments										

	Sit	e Specific	Information			Λ	Aonitoring V	Vell Informat		00-325-0605
Terry Proje		7 - 3 -	2171.9H				Well ID	02314 - MW-Z3		
SCDHEC Perm			02314				77 CH 12	OZSTI WOOD Z		
Project :	Name	Marı	uti Kundal (Former Windso	or Mart)	Testing Parameters		BTEX, Nap			
	Date		1 /3 /2017	,	1			Oxygenates, & Ethanol		
Field Pers	onnel		MTVK		Well Diameter		2-	in	20 mm	
General We	ather					Sc	reened Interval	11.2-21.2	ft	TAG BOTTOM OI
Ambient Air Temper	ature		10cm		Total	Well Dep	th (nearest 0.1')	21.2	ft	WELL TO
		Quality A	ssurance		Depth to Gr	oundwate	er (nearest 0.01')	13.65	ft	VERIFY WELL
pH Meter	• CONTRACTOR - CON		Conductivity Meter	Horiba U-52-2	1	Length of	Water Column	7.55	ft	DEPTH, WRITE
Serial Number	٧V	VKAUMKJ	Serial Number	VWKAUMKJ	1 Casing Volume (0.163)			ft	BELOW TO	
Calibration Constant		4.00	Calibration Constant	4.49 mS/cm	3	3 Casing Volumes (0.489)			gals	NEAREST 0.1'
Calibration Constant	100000000000000000000000000000000000000		Calibration Constant	53.0 mS/cm	Total Volume Purged			gals		
Calibration Constant 9.18		Calibration Constant	58.7 mS/cm			ized (bailer, pum			21-2	
Last Calibration (time)		105	Last Verification √(time)		Well 1	Yield	Low	Medium	High 🗆	
Volume		netral	Sample							
Time (mil		1315	`							
		486								
Spec Conductivity (m.		-								
Water Temperature										
Turbidity (1								
Dissolved Oxygen (r							4.11%			
			n Information			Marie III III		l Comments		
-overall condition accep		- ()			9	TRONG	Othe			
-well cap accep							J			
-manhole and cover accep										
-well pad accep										
	safe?									
-other com	ments									

TER		LIENTS FI	RST ALWA	YS —	Services	5						Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site Spec	cific Info	rmation	11			M	onitori	ng W	ell Info	rmati		
Terry Proje	ect ID		217	1.9H						314- RW-1			
SCDHEC Permi	it No.		02	2314								2 DC1	
Project 1	Vame	Maruti Kı	ındal (Fo	rmer Windso	or Mart)		Testin	ng Paran	neters	BTEX, Naph, MTBE, 1,2-DCA Oxygenates, & Ethanol			
	Date		1/3	/2017						0,	tygen	ates, & Ethi	anoi
Field Perso	onnel		MIL	<				Well Dia	meter	4		in	m. a
General We	ather		POIN	1			Scre	eened In	terval	10-30		ft	TAG BOTTOM OF
Ambient Air Temper	ature		00.	VIII 2334		Total	Well Depth	(neares	t 0.1')	29.9		ft	WELL TO
	Quali	ity Assur	ance			Depth to Gre	oundwater	(nearest	0.01')	10.11		ft	VERIFY WELL
pH Meter	Horiba U-5	2-2	Condi	uctivity Meter	Horiba U-52-2	L	ength of l	Water Co	lumn	13.77	/	ft	DEPTH,
Serial Number				erial Number	VWKAUMKJ	1	Casing V	olume (l	.163)			ft	WRITE BELOW TO
Calibration Constant	4.00				4.49 mS/cm	3	Casing Vo	olumes (0	.489)			gals	NEAREST 0.1'
Calibration Constant	6.86				53.0 mS/cm		Total V	olume P	urged	/		gals	0.1
Calibration Constant	9.18		Calibra	tion Constant	58.7 mS/cm	Purge Technique Utilized (bailer, pump)							799
Last Calibration (time)	1105	Lo	ıst Verific	cation $\sqrt{\text{(time)}}$		Well Y	ield	Low		Medium		High \square	29.9
Volume	(gal) inito	1 /50	mple	_									
Time (mil	itary) 1115												
pH	1 (su) 4.21	Q											
Spec Conductivity (m.	S/cm) 0.24	13											
Water Temperature													
Turbidity (NTU) 8.1												
Dissolved Oxygen (n	ng/L) Z 0 7	2											
	Well Cond		formatio	on				Addi	tiona	l Comme	ents		
-overall condition accept	table?	20				STE	ONC 2	00/02					
-well cap accep	table?						J						
-manhole and cover accep	table?												
-well pad accep	table?												
-area	safe?												
-other com	ments												

TER	CLIEN	vironmental .	Services	5				Summervil	P.O. Box 2: le, SC 2948- 00-325-060:	
	Site Specific	Information			Mo	nitoring W	Vell Informa	tion		
Terry Proje	ect ID	2171.9H		Well ID				02314- RW-Z		
SCDHEC Perm	it No.	02314								
Project 1	Name Mari	uti Kundal (Former Windso	r Mart)	Testing Parameters			BTEX, Naph, MTBE, 1,2-DCA			
	Date	i /3 /2017					Oxygenates, & Ethanol			
Field Person	onnel	MTX	Well Diameter			4	in			
General We	ather	Rain			Scree	ened Interval	10-30	ft	TAG BOTTOM O	
Ambient Air Temper	rature	ce.		Total W	ell Depth	(nearest 0.1')	30.0	ft	WELL TO	
Quality Assurance				Depth to Grou	ındwater	(nearest 0.01')	15.47	ft	VERIFY WELL	
pH Meter Horiba U-52-2 Conductivity Meter Horiba U-52-2 Length of Water Column					14.53	ft	DEPTH, WRITE			
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ	1 Casing Volume (0.163)				ft	BELOW TO	
Calibration Constant	4.00				asing Vol	umes (0.489)		gals	NEAREST 0.1'	
Calibration Constant	6.86	6.86 Calibration Constant 53.0 mS/cm			Total Vo	lume Purged		gals	0.1	
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm	Purge Techniq	ue Utilize	d (bailer, pum	p)		30.0	
Last Calibration (time)	1105	Last Verification √(time)		Well Yie	eld	Low	Medium	High 🗆		
Volume	(gal) into	5200								
Time (mil	itary) 1155									
pH	1 (su) 5.0)									
Spec Conductivity (m.	S/cm) 0.137									
Water Temperature	2(0) 21.4									
	NTU) 78									
Dissolved Oxygen (n	ng/L) 2.64									
	Well Condition	n Information				Additiona	l Comments			
-overall condition accept	table?			Ste	ONO	odie				
-well cap accep	table?				U					
-manhole and cover accep	table?									
-well pad accep	table?									
-area	safe?									
-other com	ments									



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 113/17	Inspector:
Solution Manufacturer: Aurical	Lot Number: 12065	Expiration Date: 3/14/17
Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.01	± 0.01
Conductivity: 4.49 mS/cm	4.42 mS/cm	± O.O 7mS/cm
Turbidity: 0.0 NTU	<u>0-4</u> NTU	± O.4 NTU
Standard Reading	Instrument Readin	<u>Accuracy</u>
NIST-Traceable Thermometer: 18.8 °C	<u>18.8</u> ℃	$_{\pm}$ O \cdot O $_{\circ}_{C}$
Q	APP Acceptance Criteria	
Field Parameter	<u>Acc</u>	<u>uracy</u>
Temperature	±1°C again	est an NIST-traceable thermometer
Specific Conductance	10% of each	h standard used
pH	±0.2 pH un	its of stated buffer value
Turbidity	10% of each	h standard used
	ector's Maintenance Note	



HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 1/3/17	Inspector: Mt
		altulla
Solution Manufacturer: <u>Aurical</u>	Lot Number: 12065	Expiration Date: 3 14 17
Solution Value	Instrument Reading	<u>Accuracy</u>
pH: 4.00	4.02	± 0.02
Conductivity: 4.49 mS/cm	4.45 mS/cm	\pm 0.04mS/cm
Turbidity: 0.0 NTU	0.2 NTU	± 0.2 NTU
Standard Reading	<u>Instrument Readin</u>	<u>Accuracy</u>
NIST-Traceable Thermometer: <u>19.3</u> °C	<u>19.3</u> ℃	± 0.0 °C
QA	APP Acceptance Criteria	
Field Parameter	Acc	uracy
Temperature	±1°C again	ast an NIST-traceable thermometer
Specific Conductance	10% of each	h standard used
pH	±0.2 pH un	its of stated buffer value
Turbidity	10% of eac.	h standard used
Maruti tandal	ector's Maintenance Note	·s

Report of Analysis

Terry Environmental Services, Inc.

222 Varnfield Drive Suite F Summerville, SC 29483 Attention: Kelly Cone

Project Name: F. Windsor Mart

Project Number: 2171.9H

Lot Number: SA04127

Date Completed: 01/09/2017

Kelly M. Nance Project Manager

KellgM Name_





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

SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: SA04127

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. Page: 2 of 30

Sample Summary Terry Environmental Services, Inc.

Lot Number: SA04127

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314-MW-1	Aqueous	01/03/2017 1135	01/04/2017
002	02314-MW-2R	Aqueous	01/03/2017 1205	01/04/2017
003	02314-MW-3	Aqueous	01/03/2017 1235	01/04/2017
004	02314-MW-4	Aqueous	01/03/2017 1145	01/04/2017
005	02314-MW-7	Aqueous	01/03/2017 1125	01/04/2017
006	02314-MW-8	Aqueous	01/03/2017 1225	01/04/2017
007	02314-MW-13	Aqueous	01/03/2017 1245	01/04/2017
800	02314-MW-15	Aqueous	01/03/2017 1215	01/04/2017
009	02314-MW-19	Aqueous	01/03/2017 1305	01/04/2017
010	02314-MW-20	Aqueous	01/03/2017 1255	01/04/2017
011	02314-MW-23	Aqueous	01/03/2017 1315	01/04/2017
012	02314-RW-1	Aqueous	01/03/2017 1115	01/04/2017
013	02314-RW-2	Aqueous	01/03/2017 1155	01/04/2017
014	02314-MW-3 DUP	Aqueous	01/03/2017 1237	01/04/2017
015	02314-FB-1	Aqueous	01/03/2017 1110	01/04/2017
016	02314-TB-1	Aqueous	01/03/2017	01/04/2017

(16 samples)

Executive Summary Terry Environmental Services, Inc.

Lot Number: SA04127

			Lot Nulliber. 3A0412	<u> </u>				
Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	02314-MW-1	Aqueous	tert-Amyl alcohol (TAA)	8260B	28000		ug/L	7
001	02314-MW-1	Aqueous	Benzene	8260B	15000		ug/L	7
001	02314-MW-1	Aqueous	Diisopropyl ether (IPE)	8260B	280	J	ug/L	7
001	02314-MW-1	Aqueous	Ethanol	8260B	480000		ug/L	7
001	02314-MW-1	Aqueous	Ethylbenzene	8260B	2800		ug/L	7
001	02314-MW-1	Aqueous	Naphthalene	8260B	440	J	ug/L	7
001	02314-MW-1	Aqueous	Toluene	8260B	46000		ug/L	7
001	02314-MW-1	Aqueous	Xylenes (total)	8260B	17000		ug/L	7
002	02314-MW-2R	Aqueous	tert-Amyl alcohol (TAA)	8260B	36000		ug/L	8
002	02314-MW-2R	Aqueous	Benzene	8260B	11000		ug/L	8
002	02314-MW-2R	Aqueous	Diisopropyl ether (IPE)	8260B	130	J	ug/L	8
002	02314-MW-2R	Aqueous	Ethylbenzene	8260B	2600		ug/L	8
002	02314-MW-2R	Aqueous	Naphthalene	8260B	380		ug/L	8
002	02314-MW-2R	Aqueous	Toluene	8260B	40000		ug/L	8
002	02314-MW-2R	Aqueous	Xylenes (total)	8260B	15000		ug/L	8
003	02314-MW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	53	J	ug/L	9
003	02314-MW-3	Aqueous	Benzene	8260B	11		ug/L	9
003	02314-MW-3	Aqueous	Ethylbenzene	8260B	36		ug/L	9
003	02314-MW-3	Aqueous	Naphthalene	8260B	28		ug/L	9
003	02314-MW-3	Aqueous	Toluene	8260B	17		ug/L	9
003	02314-MW-3	Aqueous	Xylenes (total)	8260B	260		ug/L	9
004	02314-MW-4	Aqueous	tert-Amyl alcohol (TAA)	8260B	61000		ug/L	10
004	02314-MW-4	Aqueous	Benzene	8260B	15000		ug/L	10
004	02314-MW-4	Aqueous	Diisopropyl ether (IPE)	8260B	660		ug/L	10
004	02314-MW-4	Aqueous	Ethanol	8260B	2500000		ug/L	10
004	02314-MW-4	Aqueous	Ethylbenzene	8260B	3000		ug/L	10
004	02314-MW-4	Aqueous	Methyl tertiary butyl ether	8260B	380	J	ug/L	10
004	02314-MW-4	Aqueous	Naphthalene	8260B	470	J	ug/L	10
004	02314-MW-4	Aqueous	Toluene	8260B	42000		ug/L	10
004	02314-MW-4	Aqueous	Xylenes (total)	8260B	17000		ug/L	10
005	02314-MW-7	Aqueous	tert-Amyl alcohol (TAA)	8260B	32000		ug/L	11
005	02314-MW-7	Aqueous	Benzene	8260B	6100		ug/L	11
005	02314-MW-7	Aqueous	Diisopropyl ether (IPE)	8260B	300	J	ug/L	11
005	02314-MW-7	Aqueous	Ethylbenzene	8260B	3200		ug/L	11
005	02314-MW-7	Aqueous	Naphthalene	8260B	700		ug/L	11
005	02314-MW-7	Aqueous	Toluene	8260B	35000		ug/L	11
005	02314-MW-7	Aqueous	Xylenes (total)	8260B	20000		ug/L	11
006	02314-MW-8	Aqueous	tert-Amyl alcohol (TAA)	8260B	7100		ug/L	12
006	02314-MW-8	Aqueous	Benzene	8260B	1700		ug/L	12
006	02314-MW-8	Aqueous	Ethylbenzene	8260B	2000		ug/L	12
006	02314-MW-8	Aqueous	Naphthalene	8260B	230		ug/L	12
006	02314-MW-8	Aqueous	Toluene	8260B	13000		ug/L	12
006	02314-MW-8	Aqueous	Xylenes (total)	8260B	12000		ug/L	12
007	02314-MW-13	Aqueous	tert-Amyl alcohol (TAA)	8260B	10000		ug/L	13
007	02314-MW-13	Aqueous	Benzene	8260B	3400		ug/L	13

Executive Summary (Continued)

Lot Number: SA04127

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	02314-MW-13	Aqueous	Ethylbenzene	8260B	1300		ug/L	13
007	02314-MW-13	Aqueous	Naphthalene	8260B	320		ug/L	13
007	02314-MW-13	Aqueous	Toluene	8260B	12000		ug/L	13
007	02314-MW-13	Aqueous	Xylenes (total)	8260B	9100		ug/L	13
800	02314-MW-15	Aqueous	tert-Amyl alcohol (TAA)	8260B	37000		ug/L	14
800	02314-MW-15	Aqueous	Benzene	8260B	8300		ug/L	14
800	02314-MW-15	Aqueous	Ethylbenzene	8260B	2800		ug/L	14
008	02314-MW-15	Aqueous	Naphthalene	8260B	570		ug/L	14
800	02314-MW-15	Aqueous	Toluene	8260B	37000		ug/L	14
800	02314-MW-15	Aqueous	Xylenes (total)	8260B	19000		ug/L	14
009	02314-MW-19	Aqueous	tert-Amyl alcohol (TAA)	8260B	5400		ug/L	15
009	02314-MW-19	Aqueous	Benzene	8260B	5800		ug/L	15
009	02314-MW-19	Aqueous	Diisopropyl ether (IPE)	8260B	190		ug/L	15
009	02314-MW-19	Aqueous	Ethanol	8260B	1500000		ug/L	15
009	02314-MW-19	Aqueous	Ethylbenzene	8260B	1600		ug/L	15
009	02314-MW-19	Aqueous	Naphthalene	8260B	230		ug/L	15
009	02314-MW-19	Aqueous	Toluene	8260B	19000		ug/L	15
009	02314-MW-19	Aqueous	Xylenes (total)	8260B	8900		ug/L	15
010	02314-MW-20	Aqueous	tert-Amyl alcohol (TAA)	8260B	18000		ug/L	16
010	02314-MW-20	Aqueous	Benzene	8260B	6000		ug/L	16
010	02314-MW-20	Aqueous	Diisopropyl ether (IPE)	8260B	75	J	ug/L	16
010	02314-MW-20	Aqueous	Ethylbenzene	8260B	1600		ug/L	16
010	02314-MW-20	Aqueous	Naphthalene	8260B	220		ug/L	16
010	02314-MW-20	Aqueous	Toluene	8260B	19000		ug/L	16
010	02314-MW-20	Aqueous	Xylenes (total)	8260B	9700		ug/L	16
011	02314-MW-23	Aqueous	tert-Amyl alcohol (TAA)	8260B	2300		ug/L	17
011	02314-MW-23	Aqueous	Benzene	8260B	900		ug/L	17
011	02314-MW-23	Aqueous	Ethylbenzene	8260B	300		ug/L	17
011	02314-MW-23	Aqueous	Naphthalene	8260B	62		ug/L	17
011	02314-MW-23	Aqueous	Toluene	8260B	2200		ug/L	17
011	02314-MW-23	Aqueous	Xylenes (total)	8260B	2300		ug/L	17
012	02314-RW-1	Aqueous	tert-Amyl alcohol (TAA)	8260B	49000		ug/L	18
012	02314-RW-1	Aqueous	tert-Amyl methyl ether	8260B	280	J	ug/L	18
012	02314-RW-1	Aqueous	Benzene	8260B	13000		ug/L	18
012	02314-RW-1	Aqueous	Diisopropyl ether (IPE)	8260B	1400		ug/L	18
012	02314-RW-1	Aqueous	Ethylbenzene	8260B	2800		ug/L	18
012	02314-RW-1	Aqueous	Methyl tertiary butyl ether	8260B	310	J	ug/L	18
012	02314-RW-1	Aqueous	Naphthalene	8260B	550		ug/L	18
012	02314-RW-1	Aqueous	Toluene	8260B	43000		ug/L	18
012	02314-RW-1	Aqueous	Xylenes (total)	8260B	19000		ug/L	18
013	02314-RW-2	Aqueous	tert-Amyl alcohol (TAA)	8260B	15000		ug/L	19
013	02314-RW-2	Aqueous	Benzene	8260B	7900		ug/L	19
013	02314-RW-2	Aqueous	Diisopropyl ether (IPE)	8260B	220		ug/L	19
013	02314-RW-2	Aqueous	Ethanol	8260B	140000		ug/L	19
013	02314-RW-2	Aqueous	Ethylbenzene	8260B	2200		ug/L	19
013	02314-RW-2	Aqueous	Methyl tertiary butyl ether	8260B	150	J	ug/L	19
013	02314-RW-2	Aqueous	Naphthalene	8260B	280		ug/L	19
013	02314-RW-2	Aqueous	Toluene	8260B	24000		ug/L	19

Executive Summary (Continued)

Lot Number: SA04127

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
013	02314-RW-2	Aqueous	Xylenes (total)	8260B	13000		ug/L	19
014	02314-MW-3 DUP	Aqueous	tert-Amyl alcohol (TAA)	8260B	51	J	ug/L	20
014	02314-MW-3 DUP	Aqueous	Benzene	8260B	12		ug/L	20
014	02314-MW-3 DUP	Aqueous	Ethylbenzene	8260B	37		ug/L	20
014	02314-MW-3 DUP	Aqueous	Naphthalene	8260B	28		ug/L	20
014	02314-MW-3 DUP	Aqueous	Toluene	8260B	17		ug/L	20
014	02314-MW-3 DUP	Aqueous	Xylenes (total)	8260B	260		ug/L	20

(100 detections)

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-001

Description: 02314-MW-1

Matrix: Aqueous

Date Sampled:01/03/2017 1135 Date Received: 01/04/2017

Run Prep Method **Analytical Method** Dilution Analysis Date Analyst **Prep Date** Batch 1 5030B 8260B 500 01/05/2017 1421 JM1 30859

		CAS	Analytical						
Parameter		Number	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	28000		10000	4000	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		5000	200	ug/L	1
Benzene		71-43-2	8260B	15000		500	200	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND		2500	1000	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND		500	200	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	280	J	500	200	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		10000	4000	ug/L	1
Ethanol		64-17-5	8260B	480000		50000	20000	ug/L	1
Ethylbenzene		100-41-4	8260B	2800		500	200	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		500	200	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		500	200	ug/L	1
Naphthalene		91-20-3	8260B	440	J	500	200	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		10000	4000	ug/L	1
Toluene		108-88-3	8260B	46000		500	200	ug/L	1
Xylenes (total)		1330-20-7	8260B	17000		500	200	ug/L	1
Surrogate	Q	Run 1 Accept % Recovery Lin	ance nits						
1.2 Dieblersethene d4		104 70.1	120						

Surrogate	Q	Run 1 / % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time

J = Estimated result < PQL and ≥ MDL

N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-002

Description: 02314-MW-2R

Date Sampled:01/03/2017 1205

5030B

5030B

Matrix: Aqueous

Date Received: 01/04/2017

Run Prep Method

1 2 **Analytical Method** Dilution Analysis Date Analyst Batch **Prep Date** 8260B 200 01/05/2017 1443 JM1 30859 8260B 500 01/06/2017 1636 JM1 30984

D	CAS	Analytical	D14	_	DO!	MDI	1114-	D
Parameter	Number	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	36000		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	80	ug/L	1
Benzene	71-43-2	8260B	11000		200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	130	J	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	2600		200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		200	80	ug/L	1
Naphthalene	91-20-3	8260B	380		200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	108-88-3	8260B	40000		500	200	ug/L	2
Xylenes (total)	1330-20-7	8260B	15000		200	80	ug/L	1

		Run 1	Acceptance		Run 2 A	cceptance
Surrogate	Q	% Recovery	Limits	Q	% Recovery	Limits
1,2-Dichloroethane-d4		101	70-130		107	70-130
Bromofluorobenzene		100	70-130		100	70-130
Toluene-d8		105	70-130		106	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

Client: Terry Environmental Services, Inc.

Analytical Method Dilution

8260B

Laboratory ID: SA04127-003

Description: 02314-MW-3

Run Prep Method

Matrix: Aqueous

Date Sampled:01/03/2017 1235 Date Received: 01/04/2017

5030B

Analysis Date Analyst **Prep Date** Batch 01/05/2017 1505 JM1 30859

Parameter			CAS	Analytical	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		Num 75-8		Method 8260B	53 J	100	40	ug/L	1
tert-Amyl methyl ether (TAME)		994-0		8260B	ND	50	2.0	ug/L	1
Benzene		71-4		8260B	11	5.0	2.0	ug/∟ ug/L	1
tert-Butyl formate (TBF)		762-7		8260B	ND	25	10	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.0	2.0	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	2.0	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	100	40	ug/L	1
Ethanol		64-1	17-5	8260B	ND	500	200	ug/L	1
Ethylbenzene		100-4	11-4	8260B	36	5.0	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	5.0	2.0	ug/L	1
Naphthalene		91-2	20-3	8260B	28	5.0	2.0	ug/L	1
tert-butyl alcohol (TBA)		75-6	65-0	8260B	ND	100	40	ug/L	1
Toluene		108-8	38-3	8260B	17	5.0	2.0	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	260	5.0	2.0	ug/L	1
Surrogate	Q	Run 1 A % Recovery	Acceptan Limit						
1,2-Dichloroethane-d4		103	70-130)					
Bromofluorobenzene		98	70-130)					
Toluene-d8		102	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

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-004

Description: 02314-MW-4

Date Sampled:01/03/2017 1145

Matrix: Aqueous

Date Received: 01/04/2017

5030B

Run Prep Method

1

Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 8260B 500 01/05/2017 1549 JM1 30859

	CAS	Analytical					
Parameter	Number	Method	Result	Q PQ	L MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	61000	1000	0 4000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	500	0 200	ug/L	1
Benzene	71-43-2	8260B	15000	50	0 200	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	250	0 1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	50	0 200	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	660	50	0 200	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	1000	0 4000	ug/L	1
Ethanol	64-17-5	8260B	2500000	5000	0 20000	ug/L	1
Ethylbenzene	100-41-4	8260B	3000	50	0 200	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	50	0 200	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	380	J 50	0 200	ug/L	1
Naphthalene	91-20-3	8260B	470	J 50	0 200	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	1000	0 4000	ug/L	1
Toluene	108-88-3	8260B	42000	50	0 200	ug/L	1
Xylenes (total)	1330-20-7	8260B	17000	50	0 200	ug/L	1
Surrogate	Run 1 Accept	tance					

Surrogate	Run 1 Q % Recove	•
1,2-Dichloroethane-d4	103	70-130
Bromofluorobenzene	100	70-130
Toluene-d8	103	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

01/06/2017 0129 JJG

Client: Terry Environmental Services, Inc.

Analytical Method Dilution

8260B

500

101

104

Laboratory ID: SA04127-005

Description: 02314-MW-7

Run Prep Method

Bromofluorobenzene

Toluene-d8

Matrix: Aqueous

Date Sampled:01/03/2017 1125 Date Received: 01/04/2017

5030B

Analysis Date Analyst **Prep Date** Batch

30932

Parameter		C. Numb		nalytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85		8260B	32000		10000	4000	ug/L	1
tert-Amyl methyl ether (TAME)		994-05	5-8	8260B	ND		5000	200	ug/L	1
Benzene		71-43	3-2	8260B	6100		500	200	ug/L	1
tert-Butyl formate (TBF)		762-75	5-4	8260B	ND		2500	1000	ug/L	1
1,2-Dichloroethane		107-06	6-2	8260B	ND		500	200	ug/L	1
Diisopropyl ether (IPE)		108-20)-3	8260B	300	J	500	200	ug/L	1
3,3-Dimethyl-1-butanol		624-95	5-3	8260B	ND		10000	4000	ug/L	1
Ethanol		64-17	7-5	8260B	ND		50000	20000	ug/L	1
Ethylbenzene		100-41	I-4	8260B	3200		500	200	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92	2-3	8260B	ND		500	200	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04	1-4	8260B	ND		500	200	ug/L	1
Naphthalene		91-20)-3	8260B	700		500	200	ug/L	1
tert-butyl alcohol (TBA)		75-65	5-0	8260B	ND		10000	4000	ug/L	1
Toluene		108-88	3-3	8260B	35000		500	200	ug/L	1
Xylenes (total)		1330-20	0-7	8260B	20000		500	200	ug/L	1
Surrogate	Q	Run 1 A % Recovery	cceptance Limits							
1,2-Dichloroethane-d4		105	70-130						-	

70-130

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"

Page: 11 of 30

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-006

Description: 02314-MW-8

Matrix: Aqueous

Date Sampled:01/03/2017 1225 Date Received: 01/04/2017

> Analytical Method Dilution Analysis Date Analyst Prep Date Batch

Run P	rep Method 5030B	Analytical Method 8260B	Dilution 100	•	rsis Date Analyst 2017 0151 JJG	Prep Date	Batch 30932
Parame	eter		Nun	CAS	Analytical Method	Result Q	PQL

	CAS	Analytical					
Parameter	Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	7100	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	40	ug/L	1
Benzene	71-43-2	8260B	1700	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND	10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	2000	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene	91-20-3	8260B	230	100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	2000	800	ug/L	1
Toluene	108-88-3	8260B	13000	100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	12000	100	40	ug/L	1

Surrogate	Run 1 Q % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	105	70-130
Bromofluorobenzene	104	70-130
Toluene-d8	106	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

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-007

Description: 02314-MW-13

Date Sampled:01/03/2017 1245

5030B

Matrix: Aqueous

Date Received: 01/04/2017

Run Prep Method

Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 8260B 100 01/06/2017 0213 JJG 30932

Parameter	CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	10000	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	40	ug/L	1
Benzene	71-43-2	8260B	3400	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND	10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	1300	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene	91-20-3	8260B	320	100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	2000	800	ug/L	1
Toluene	108-88-3	8260B	12000	100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	9100	100	40	ug/L	1
	Run 1 Accept	ance					

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

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-008

Description: 02314-MW-15

Matrix: Aqueous

Date Sampled:01/03/2017 1215 Date Received: 01/04/2017

5030B

Run Prep Method

Bromofluorobenzene

Toluene-d8

1

Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 8260B 200 01/06/2017 0235 JJG 30932

	CAS	Analytical					
Parameter	Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	37000	4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	2000	80	ug/L	1
Benzene	71-43-2	8260B	8300	200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND	20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	2800	200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	200	80	ug/L	1
Naphthalene	91-20-3	8260B	570	200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1600	ug/L	1
Toluene	108-88-3	8260B	37000	200	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	19000	200	80	ug/L	1
Surrogate	Run 1 Accept Q % Recovery Lir	tance nits					
1,2-Dichloroethane-d4	104 70-1	130	_				

70-130

70-130

99

104

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"

Page: 14 of 30

01/07/2017 0133 ECP

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-009

31032

Description: 02314-MW-19

2

Matrix: Aqueous

Date Sampled:01/03/2017 1305

5030B

Date Received: 01/04/2017 Run Prep Method **Analytical Method** Dilution Analysis Date Analyst Batch **Prep Date** 5030B 8260B 100 01/06/2017 0257 JJG 30932 1

200

8260B

Parameter	CAS Number	Analytical	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	Method 8260B	5400	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	40	ug/L	1
Benzene	71-43-2	8260B	5800	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	190	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	1500000	10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	1600	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene	91-20-3	8260B	230	100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	2000	800	ug/L	1
Toluene	108-88-3	8260B	19000	200	80	ug/L	2
Xylenes (total)	1330-20-7	8260B	8900	100	40	ug/L	1

		Run 1 A	Acceptance		Run 2 A	cceptance
Surrogate	Q	% Recovery	Limits	Q	% Recovery	Limits
1,2-Dichloroethane-d4		99	70-130		102	70-130
Bromofluorobenzene		100	70-130		103	70-130
Toluene-d8		104	70-130		104	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-010

Description: 02314-MW-20

Matrix: Aqueous

Date Sampled:01/03/2017 1255

Date Received: 01/04/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	100	01/06/2017 0319 JJG		30932

	CAS	Analytical						
Parameter	Number	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	18000		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	40	ug/L	1
Benzene	71-43-2	8260B	6000		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	75	J	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	1600		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1
Naphthalene	91-20-3	8260B	220		100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1
Toluene	108-88-3	8260B	19000		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	9700		100	40	ug/L	1
	Run 1 Accent	ance						

Surrogate	Run 1 Q % Recover	Acceptance y Limits	
1,2-Dichloroethane-d4	103	70-130	
Bromofluorobenzene	99	70-130	
Toluene-d8	105	70-130	

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
P = The RPD between two GC columns exceeds 40%

H = Out of holding time

 $ND = Not \ detected \ at \ or \ above \ the \ MDL \qquad J = Estimated \ result \ < PQL \ and \ \ge MDL \qquad P = The \ RESULT \ And \$

N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-011

Description: 02314-MW-23

Matrix: Aqueous

Date Sampled:01/03/2017 1315 Date Received: 01/04/2017

Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 1 5030B 8260B 50 01/06/2017 0341 JJG 30932

	CAS	Analytical					
Parameter	Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	2300	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	500	20	ug/L	1
Benzene	71-43-2	8260B	900	50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND	5000	2000	ug/L	1
Ethylbenzene	100-41-4	8260B	300	50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	50	20	ug/L	1
Naphthalene	91-20-3	8260B	62	50	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	1000	400	ug/L	1
Toluene	108-88-3	8260B	2200	50	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	2300	50	20	ug/L	1
	Run 1 Accept	ance					

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		103	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

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-012

Description: 02314-RW-1

Date Sampled:01/03/2017 1115 Date Received: 01/04/2017

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
2	5030B	8260B	500	01/07/2017 0155 ECP		31032

		CAS	Analytical						
Parameter		Number	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	49000		10000	4000	ug/L	2
tert-Amyl methyl ether (TAME)		994-05-8	8260B	280	J	5000	200	ug/L	2
Benzene		71-43-2	8260B	13000		500	200	ug/L	2
tert-Butyl formate (TBF)		762-75-4	8260B	ND		2500	1000	ug/L	2
1,2-Dichloroethane		107-06-2	8260B	ND		500	200	ug/L	2
Diisopropyl ether (IPE)		108-20-3	8260B	1400		500	200	ug/L	2
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		10000	4000	ug/L	2
Ethanol		64-17-5	8260B	ND		50000	20000	ug/L	2
Ethylbenzene		100-41-4	8260B	2800		500	200	ug/L	2
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		500	200	ug/L	2
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	310	J	500	200	ug/L	2
Naphthalene		91-20-3	8260B	550		500	200	ug/L	2
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		10000	4000	ug/L	2
Toluene		108-88-3	8260B	43000		500	200	ug/L	2
Xylenes (total)		1330-20-7	8260B	19000		500	200	ug/L	2
Surrogate	Q		ptance imits						
1.2-Dichloroethane-d4		104 70	-130						

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

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"

J = Estimated result < PQL and ≥ MDL

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-013

Description: 02314-RW-2

Run Prep Method

1

Date Sampled:01/03/2017 1155

Matrix: Aqueous

Date Received: 01/04/2017

5030B

Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 8260B 200 01/06/2017 0425 JJG 30932

Parameter	CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	15000	4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	2000	80	ug/L	1
Benzene	71-43-2	8260B	7900	200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	220	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	4000	1600	ug/L	1
Ethanol	64-17-5	8260B	140000	20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	2200	200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	150 J	200	80	ug/L	1
Naphthalene	91-20-3	8260B	280	200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1600	ug/L	1
Toluene	108-88-3	8260B	24000	200	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	13000	200	80	ug/L	1
Surrogate	Run 1 Accept	tance					

		Run 1	Acceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		104	70-130

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

Client: Terry Environmental Services, Inc.

Description: 02314-MW-3 DUP

Laboratory ID: SA04127-014

Matrix: Aqueous

Date Sampled:01/03/2017 1237 Date Received: 01/04/2017

Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 5030B 8260B 01/05/2017 1527 JM1 30859

Parameter	CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	51 J	100	40	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	50	2.0	ug/L	1
Benzene	71-43-2	8260B	12	5.0	2.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	25	10	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	5.0	2.0	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	40	ug/L	1
Ethanol	64-17-5	8260B	ND	500	200	ug/L	1
Ethylbenzene	100-41-4	8260B	37	5.0	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	5.0	2.0	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	28	5.0	2.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	100	40	ug/L	1
Toluene	108-88-3	8260B	17	5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	260	5.0	2.0	ug/L	1

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		105	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

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-015

Matrix: Aqueous

Date Sampled:01/03/2017 1110

Description: 02314-FB-1

Date Received: 01/04/2017 Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 1 5030B 8260B 01/05/2017 2146 JJG 30932

	CAS	Analytical					
Parameter	Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.40	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept Q % Recovery Lir	tance nits					
1,2-Dichloroethane-d4	105 70-1	130					

Bromofluorobenzene 92 70-130 Toluene-d8 103 70-130

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 P = The RPD between two GC columns exceeds 40%

H = Out of holding time

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

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Shealy Environmental Services, Inc.

Client: Terry Environmental Services, Inc.

Laboratory ID: SA04127-016

Description: 02314-TB-1

Matrix: Aqueous

Date Sampled:01/03/2017 Date Received: 01/04/2017

Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 1 5030B 8260B 01/05/2017 2208 JJG 30932

	CAS	Analytical					
Parameter	Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.40	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accep Q % Recovery Liı	tance mits					
1.2-Dichloroethane-d4	108 70-	130					

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

QC Summary

Sample ID: SQ30859-001 Batch: 30859

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	01/05/2017 1020
tert-Amyl methyl ether (TAME)	ND		1	10	0.40	ug/L	01/05/2017 1020
Benzene	ND		1	1.0	0.40	ug/L	01/05/2017 1020
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	01/05/2017 1020
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	01/05/2017 1020
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	01/05/2017 1020
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	01/05/2017 1020
Ethanol	ND		1	100	40	ug/L	01/05/2017 1020
Ethylbenzene	ND		1	1.0	0.40	ug/L	01/05/2017 1020
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	01/05/2017 1020
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	01/05/2017 1020
Naphthalene	ND		1	1.0	0.40	ug/L	01/05/2017 1020
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	01/05/2017 1020
Toluene	ND		1	1.0	0.40	ug/L	01/05/2017 1020
Xylenes (total)	ND		1	1.0	0.40	ug/L	01/05/2017 1020
Surrogate	Q % R	ec	Acceptance Limit				
Bromofluorobenzene	92		70-130				
1,2-Dichloroethane-d4	110)	70-130				
Toluene-d8	104	ļ	70-130				

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ30859-002

Batch: 30859

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

	Spike Amount	Result				% Rec		
Parameter	(ug/L)	(ug/L)	Q	Dil	% Rec	Limit	Analysis Date	
tert-Amyl alcohol (TAA)	1000	1100		1	106	70-130	01/05/2017 0924	
tert-Amyl methyl ether (TAME)	50	47		1	95	70-130	01/05/2017 0924	
Benzene	50	46		1	91	70-130	01/05/2017 0924	
tert-Butyl formate (TBF)	250	260		1	106	70-130	01/05/2017 0924	
1,2-Dichloroethane	50	48		1	97	70-130	01/05/2017 0924	
Diisopropyl ether (IPE)	50	47		1	95	70-130	01/05/2017 0924	
3,3-Dimethyl-1-butanol	1000	1100		1	111	70-130	01/05/2017 0924	
Ethanol	5000	5500		1	110	60-140	01/05/2017 0924	
Ethylbenzene	50	50		1	100	70-130	01/05/2017 0924	
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	70-130	01/05/2017 0924	
Methyl tertiary butyl ether (MTBE)	50	46		1	93	70-130	01/05/2017 0924	

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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Sample ID: SQ30859-002 Batch: 30859

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	48	1	95	70-130	01/05/2017 0924
tert-butyl alcohol (TBA)	1000	1000	1	102	70-130	01/05/2017 0924
Toluene	50	49	1	97	70-130	01/05/2017 0924
Xylenes (total)	100	100	1	101	70-130	01/05/2017 0924
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	96	70-130				
1,2-Dichloroethane-d4	100	70-130				
Toluene-d8	98	70-130				

Volatile Organic Compounds by GC/MS - MS

Sample ID: SA04127-004MS

Batch: 30859 Analytical Method: 8260B

Methyl tertiary butyl ether (MTBE)

Naphthalene

Toluene

tert-butyl alcohol (TBA)

Matrix: Aqueous Prep Method: 5030B

500

500

500

500

89

94

104

99

60-140

62-136

70-130

75-125

01/05/2017 1656

01/05/2017 1656

01/05/2017 1656

01/05/2017 1656

7 m.a., y m.o.a. m.o.a. o.z. o.z.								
Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	61000	500000	600000		500	107	70-130	01/05/2017 1656
tert-Amyl methyl ether (TAME)	ND	25000	23000		500	93	70-130	01/05/2017 1656
Benzene	15000	25000	38000		500	89	72-127	01/05/2017 1656
tert-Butyl formate (TBF)	ND	130000	120000		500	96	70-130	01/05/2017 1656
1,2-Dichloroethane	ND	25000	23000		500	93	59-143	01/05/2017 1656
Diisopropyl ether (IPE)	660	25000	24000		500	93	70-130	01/05/2017 1656
3,3-Dimethyl-1-butanol	ND	500000	520000		500	105	70-130	01/05/2017 1656
Ethanol	2500000	2500000	5100000		500	105	70-130	01/05/2017 1656
Ethylbenzene	3000	25000	29000		500	104	79-132	01/05/2017 1656
Ethyl-tert-butyl ether (ETBE)	ND	25000	23000		500	92	70-130	01/05/2017 1656

Xylenes (total)	17000	50000	70000	500	105	70-130	01/05/2017 1656
Surrogate	Q % Red	Accepta Limit					
1,2-Dichloroethane-d4	99	70-13	30				
Bromofluorobenzene	98	70-13	30				
Toluene-d8	101	70-13	30				

23000

24000

520000

67000

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

380

470

ND

42000

25000

25000

500000

25000

Sample ID: SA04127-004MD

Batch: 30859

Matrix: Aqueous 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)	61000	500000	650000		500	117	8.4	70-130	20	01/05/2017 1718
tert-Amyl methyl ether (TAME)	ND	25000	25000		500	100	7.2	70-130	20	01/05/2017 1718
Benzene	15000	25000	40000		500	97	5.7	72-127	20	01/05/2017 1718
tert-Butyl formate (TBF)	ND	130000	130000		500	105	8.6	70-130	20	01/05/2017 1718
1,2-Dichloroethane	ND	25000	26000		500	103	9.6	59-143	20	01/05/2017 1718
Diisopropyl ether (IPE)	660	25000	26000		500	101	7.9	70-130	20	01/05/2017 1718
3,3-Dimethyl-1-butanol	ND	500000	580000		500	116	10	70-130	20	01/05/2017 1718
Ethanol	2500000	2500000	5300000		500	114	4.5	70-130	20	01/05/2017 1718
Ethylbenzene	3000	25000	31000		500	112	7.1	79-132	20	01/05/2017 1718
Ethyl-tert-butyl ether (ETBE)	ND	25000	25000		500	98	6.6	70-130	20	01/05/2017 1718
Methyl tertiary butyl ether (MTBE)	380	25000	24000		500	95	5.7	60-140	20	01/05/2017 1718
Naphthalene	470	25000	27000		500	107	13	62-136	20	01/05/2017 1718
tert-butyl alcohol (TBA)	ND	500000	550000		500	109	5.0	70-130	20	01/05/2017 1718
Toluene	42000	25000	69000		500	108	3.4	75-125	20	01/05/2017 1718
Xylenes (total)	17000	50000	74000		500	113	5.4	70-130	20	01/05/2017 1718
Surrogate	Q % Rec		ptance mit							
1,2-Dichloroethane-d4	99	70	-130			·	·		·	
Bromofluorobenzene	95	70	-130							
Toluene-d8	99	70	-130							

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ30932-001

Batch: 30932

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	01/05/2017 2105
tert-Amyl methyl ether (TAME)	ND		1	10	0.40	ug/L	01/05/2017 2105
Benzene	ND		1	1.0	0.40	ug/L	01/05/2017 2105
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	01/05/2017 2105
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	01/05/2017 2105
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	01/05/2017 2105
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	01/05/2017 2105
Ethanol	ND		1	100	40	ug/L	01/05/2017 2105
Ethylbenzene	ND		1	1.0	0.40	ug/L	01/05/2017 2105
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	01/05/2017 2105
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	01/05/2017 2105

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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Sample ID: SQ30932-001 Batch:30932

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

/05/2017 2105 /05/2017 2105
05/2017 2105
/05/2017 2105
/05/2017 2105

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ30932-002 Batch:30932

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100	1	109	70-130	01/05/2017 2029
tert-Amyl methyl ether (TAME)	50	47	1	94	70-130	01/05/2017 2029
Benzene	50	46	1	91	70-130	01/05/2017 2029
tert-Butyl formate (TBF)	250	250	1	101	70-130	01/05/2017 2029
1,2-Dichloroethane	50	48	1	96	70-130	01/05/2017 2029
Diisopropyl ether (IPE)	50	46	1	92	70-130	01/05/2017 2029
3,3-Dimethyl-1-butanol	1000	1100	1	113	70-130	01/05/2017 2029
Ethanol	5000	5200	1	105	60-140	01/05/2017 2029
Ethylbenzene	50	50	1	100	70-130	01/05/2017 2029
Ethyl-tert-butyl ether (ETBE)	50	47	1	94	70-130	01/05/2017 2029
Methyl tertiary butyl ether (MTBE)	50	43	1	86	70-130	01/05/2017 2029
Naphthalene	50	52	1	103	70-130	01/05/2017 2029
tert-butyl alcohol (TBA)	1000	990	1	99	70-130	01/05/2017 2029
Toluene	50	49	1	97	70-130	01/05/2017 2029
Xylenes (total)	100	100	1	101	70-130	01/05/2017 2029
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	99	70-130				
1,2-Dichloroethane-d4	103	70-130				
Toluene-d8	101	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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Sample ID: SQ30984-001 Batch: 30984

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Toluene	ND		1	1.0	0.40	ug/L	01/06/2017 1053
Surrogate	Q % Rec		eptance Limit				
Bromofluorobenzene	97	7	70-130				
1,2-Dichloroethane-d4	111	7	70-130				
Toluene-d8	99	7	70-130				

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ30984-002

Matrix: Aqueous

Batch: 30984 Prep Method: 5030B
Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	50	48	1	95	70-130	01/06/2017 1013
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	101	70-130				
1,2-Dichloroethane-d4	104	70-130				
Toluene-d8	97	70-130				

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ31032-001

Batch:31032 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	01/06/2017 2159
tert-Amyl methyl ether (TAME)	ND		1	10	0.40	ug/L	01/06/2017 2159
Benzene	ND		1	1.0	0.40	ug/L	01/06/2017 2159
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	01/06/2017 2159
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	01/06/2017 2159
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	01/06/2017 2159
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	01/06/2017 2159
Ethanol	ND		1	100	40	ug/L	01/06/2017 2159
Ethylbenzene	ND		1	1.0	0.40	ug/L	01/06/2017 2159

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

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

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

Sample ID: SQ31032-001 Batch:31032

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	01/06/2017 2159
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	01/06/2017 2159
Naphthalene	ND		1	1.0	0.40	ug/L	01/06/2017 2159
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	01/06/2017 2159
Toluene	ND		1	1.0	0.40	ug/L	01/06/2017 2159
Xylenes (total)	ND		1	1.0	0.40	ug/L	01/06/2017 2159
Surrogate	Q % Re		Acceptance Limit				
Bromofluorobenzene	95		70-130				
1,2-Dichloroethane-d4	106		70-130				
Toluene-d8	101		70-130				

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ31032-002

Batch: 31032 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	1200		1	124	70-130	01/06/2017 2048
tert-Amyl methyl ether (TAME)	50	47		1	94	70-130	01/06/2017 2048
Benzene	50	46		1	92	70-130	01/06/2017 2048
tert-Butyl formate (TBF)	250	260		1	105	70-130	01/06/2017 2048
1,2-Dichloroethane	50	48		1	96	70-130	01/06/2017 2048
Diisopropyl ether (IPE)	50	47		1	95	70-130	01/06/2017 2048
3,3-Dimethyl-1-butanol	1000	1300		1	127	70-130	01/06/2017 2048
Ethanol	5000	6100		1	123	60-140	01/06/2017 2048
Ethylbenzene	50	52		1	103	70-130	01/06/2017 2048
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	70-130	01/06/2017 2048
Methyl tertiary butyl ether (MTBE)	50	44		1	88	70-130	01/06/2017 2048
Naphthalene	50	52		1	104	70-130	01/06/2017 2048
tert-butyl alcohol (TBA)	1000	1100		1	109	70-130	01/06/2017 2048
Toluene	50	50		1	100	70-130	01/06/2017 2048

PQL = Practical quantitation limit

Xylenes (total)

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

100

+ = RPD is out of criteria

104

70-130

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

100

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

01/06/2017 2048

Matrix: Aqueous

Sample ID: SQ31032-002

Batch: 31032 Prep Method: 5030B

Analytical Method: 8260B

Surrogate	Q % Rec	Acceptance Limit	
Bromofluorobenzene	96	70-130	
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	98	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"

Chain of Custody and Miscellaneous Documents

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Chain of Custody Record

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 64434

TERRY Environmen	and the second second	Report to Contest									ne No. /	Ouole No.							
P.O. 130x 7.5		Sampier's Signature X. M. M.								K(ONE OTERS INVITORMINATOR) (Analysis (Attach list if more space is needed)						u.Car	Page of Z		
City State SUMMITIZATIVE SE Project Name	Printed N	ame	U			ytaylor				1,2DCA	PC+						SA04127		
Maruti Kuntal (F Wi Project No. 2171. 94	+) 10(.10		T -		1	No of Consulters by Presentative Time				NIMH 1,2	Classific								
Sample 10 / Description (Containers for each sample may be continued on one fice.)	Daie	Three	G-Garagesto	Ansens	Alvera de	Species		NG NG	T	an acce	- <u>20</u> 20							I commence could be	
52314 - MW-1	1/3/17	1135	6	×				3			3					\top			
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um Around Time Required (Prior lab approval required for expedited TAL) Sample Disposal Standard □ Rush (Specify) □ Return to Client □ Return to										antificar Ismmah							QC Requirements (Specify)		
M. Mantaonery Topole 1/3/17 1745					415		Rec	eiríoca t	1	7	Kin	lin						7715	
Jung hu 1/3/17 17/8						- 1 '	2. Browness hu								0ate /	17	1715		
Juny hun 1/4/17 1435						_	2 fredering of 2 1 144/17 Time 35							1435					
Painquisted by 1/1, 7 inne 144/6-1400								4. Laboratory received by Son I Date Time											
Note: All samples are retained for four weeks from receipt unless other arrangements are made.								LAB USE ONLY											
NSTRIBUTION: WHITE & YELLOW-Return to labore				_		10	-dia r	011	os ICI	Cie,	VES) No	rce mac		wadeupt Tel	np.		C		

Chain of Custody Record

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 64448

SHEALY ENVIRONMENTAL SERVICES, INC.

Client	Report to	Report to Cantact										e No. / E-r	Quote No.					
TERRY Environm	K	Kelly Cone									KLONE @ HERRYENVIROMENTALIN						lan	
Address		Samplers													ace is need			10 F
P.O. Box 25		11	,	h	-	_											_	Page Z orZ
SUMMERVITE SC	-	Mi-M										* 7						
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Mariti Windla (F. Win	HOOK MOIK	+) 111 1	NUY	710	Jui	cor	0		0	-		+12DCA						SA04127
Project No.	P.O. No.	1	2		datrix			No of				2 +	10					0.10
2171.94	Date	Time	Section of the sectio	2	1.1	-	T-	_	er sur.		_	- 3 ×						
Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Inne	e d	100000	Sales Agents	CAUTHE	105504	400	ě	MOOM	5035 AST	BIEWWHIZDG					\downarrow	Remarks / Cooler I.D.
02314 - MW-23	1/3/17-	1315	e	Х		1			3			3						
02314- PW-1	1/3/17	1115									-						_	
02314 - PW-Z	1/2/17	1155													.,		_	
02314 - MW-3-DUP	1/3/17	1237	-	Ш					П		1	Ш	_				\perp	
02314-FB-1	1/3/17	1110	1	1		1	1		6		1	1	_				-	
02314-118-1		-	4	×		-	-		2	-	+	2	-	+	+		+	
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Turn Around Time Required (Prior lab approval regul	red for expedited TAX	Sample Dis	posar			-					entitica				101.75	QC Ru	дылению	ints (Specify)
Standard		□ Return to	Client 1	-	-	_	-	_	_	423	lamma	ible 🗆 Skin	Initiant 1	Paison i	Unknown	Date ,	-	
1. Relinquished by Date 1/3					- 1915				ed b	1	سير	y K	y-Kun				1/17	17/5
2. Relinquished the		Date 1/3	111	77	me / 7/	5		poli.	0	n	w	-j-	K			Date 1/5/	17	1715
3. Helingolished by Christy Kin Date					17 1435			odes	00	1	91	30	30				7	7435
4. Relinquiened by 11 1 832 0 Date				Time			4.1									Time [(eUO)		
Note: All samples are reta		eeks from i		ot	-	-		USE				0	-6-00			2.2		***
unless other arr	angements are	made.	_	-	-		Rec	eivac	on	cə (C	irclə)	Yes No	Ice Pac	Rec	elpt Temp.	A.T		

DISTRIBUTION: WHITE & YELLOW-Haturn to laboratory with Sample(s); PINK-Ficid/Client Copy

Document Number: F-AD-133 Effective Daw: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc. Document Number: ME0018C-07

Page 1 of 1 Effective Date: 11/29/2016 Expiry Date: 11/29/2021

Sample Receipt Checklist (SRC)

Cli	ient: <u>I</u> €v	<u>ry</u>	Cooler Inspected by/date: SBE /1-4-17 Lot #: SA 0412.7
			□ Client □ UPS □ FedEx □ Other
Yes 🗆		0 🗆	Were custody seals present on the cooler?
Yes 🗆	THE RESERVE THE PERSON NAMED IN		A 2. If custody seals were present, were they intact and unbroken?
pH strip	D:	-	Cl strip ID:
	6-176-1	_°C	ture upon receipt/Derived (corrected) temperature upon receipt: /_ /_ °C
Method Method	of coolant	rature Bla	ink Li Against Bottles IR Gun ID: IR Gun Correction Factor: 0, 2°C
Memoci	or coorant	: El Wet	
Yes □	No 🗆	NA	 If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes 🗆	No 🗆	NA Ø	4. Is the commercial courier's packing slip attached to this form?
Yes D	No 🗆		5. Were proper custody procedures (relinquished/received) followed?
Yes (1)	No □		6. Were sample IDs listed on the COC?
Yeş	No 🗆		7. Were sample IDs listed on all sample containers?
Yesjan	No □		8. Was collection date & time listed on the COC?
Yes ø	No 🗆		9. Was collection date & time listed on all sample containers?
Yes Z	No □		10. Did all container label information (ID, date, time) agree with the COC?
Yes 🗷	No □		11. Were tests to be performed listed on the COC?
Yes 🗷	No 🗆		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yespi	No □		13. Was adequate sample volume available?
Yes 🗵	No 🗆		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes 🗆	No Ø		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes □	No Ø	NA D	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes □	No 🗆	NA Ø	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes □	No □	NA Ø	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes □	No □	NA Ø	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (<0.5mg/L) samples free of residual chlorine?
Yes 🗆	No 🗆	NA	20. Were collection temperatures documented on the COC for NC samples?
Yes 🗆	No 🗆	NA Ø	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc) correctly transcribed from the COC into the comment section in LIMS?
Yes □	No ta'		22. Was the quote number used taken from the container label?
1000	Preservati	ion (Mu	st be completed for any sample(s) incorrectly preserved or with headspace.)
Sample(s		(1110	
	ole receivir	ng with	were received incorrectly preserved and were adjusted accordingly in (H ₂ SO ₄ , HNO ₅ , HCl, NaOH) using SR #
Sample(s			were received with bubbles >6 mm in diameter.
Samples(were received with TRC >0.5 mg/L (If #21 is No) and were
adjusted	accordingl	y in samp	le receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID:
SC Drink	cing Water	Project S	ample(s) pH verified to be < 2 by Date:
Sample(s		w	cre Not received at a pH of < 2 and were adjusted accordingly using SR#
Sample la	abels appli	ed by:	PrEVerified by:Date: /-4/-/
uments:			

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifest

TERRY Environmental Services, Inc. Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, <u>6.5</u> gallons of petroleum contaminated purge water and/or by-products from cleaning and decontamination were processed on-site via a portable granular activated carbon (GAC) unit and released to the surface within the area of the known petroleum contamination plume on January 3, 2017.

Maruti Kundal (Frm Windsor Mart)
Cheraw, South Carolina
SCDHEC UST Permit No.: 02314





APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Maruti Kundal (Former Windsor Mart)</u>

UST Permit #02314 - TERRY Project #2171.9H

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,	X		
4	telephone number, and certification number provided?	^		
5	Is the name, address, telephone number, and certification number of the well			X
3	driller that installed borings/monitoring wells provided?			Λ
6	Is the name, address, telephone number, and certification number of the certified	X		
U	laboratory(ies) performing analytical analyses provided?	Λ		
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		Sect.
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		
	Have the groundwater sampling dates and groundwater measurements been			
21	provided?	X		
22	Has the purging methodology been detailed?			X
23	Has the volume of water purged from each well been provided along with			X
23	measurements to verify that purging is complete?			Λ
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
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		

Item #	Item	Yes	No	N/A
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 Fig 4		X Fig 3
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



JACKSON OIL COMPANY INC. 755 SOUTH 4TH STREET HARTSVILLE SC 29550

JAN 2 3 2018



Re: Site Specific Work Plan (SSWP) Request

Maruti Kundal DBA Country Cupboard 7, 820 Chesterfield Hwy., Cheraw, SC

UST Permit #02314

Release Reported December 06, 1991

Monitoring Report Received January 30, 2017

Chesterfield County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Terry Environmental Services, Inc., as your contractor. The next appropriate scope of work at the site is a comprehensive groundwater sampling event.

The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 3.1 and must be conducted in compliance with all applicable regulations. Groundwater samples should be collected from all monitoring wells and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates, and EDB. A copy of the DHEC OAPP Revision 3.1 for the UST Management Division is available at

http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentCleanup/OualityAssurance/.

Please have your contractor complete and submit the Site Specific Work Plan (SSWP) and Cost Proposal within thirty (30) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial preapproval from the DHEC must be issued before work begins.

On all correspondence concerning this site, please reference **UST Permit #02314.** If there are any questions concerning this project, please contact me at (803) 898-0655 or by email at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist Corrective Action and Quality Assurance Section

UST Management Division

Bureau of Land and Waste Management

Terry Environmental Services Inc., PO Box 25, Summerville, SC 29484 Technical File cc:



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

To: Quincy Hoffer	(SCI	OHEC Project Manager)			
From: Kelly Cone	(Cont	ractor Project Manager)			
Contractor: TERRY Environmental Services, Inc.	JST Contractor Certification Number: UCC-02				
Facility Name: Maruti Kundal (Former Windsor Mart)	UST Permit #: 0	2314			
Facility Address: 820 Chesterfield Highway, Cheraw, South	Carolina 29520	UST			
Responsible Party: Jackson Oil Company, Inc.	Phone: 843-537	-7080			
RP Address: 755 South 4th Street, Hartsville, SC 29550		2 2010			
Property Owner (if different): n/a		JAN 3 11 2018			
Property Owner Address: n/a					
Current Use of Property: Gas Station and Convenience	Store (Corner Cupboard)	FOGRA			
Scope of Work (Please check all that apply)					
☐ IGWA ☐ Tier II	Groundwater Sampling	☐ GAC			
☐ Tier I ☐ Monitoring Well Installati	on				
Analyses (Please check all that apply)					
Groundwater/Surface Water:					
☑ BTEXNMDCA (8260B) ☐ Lead	☐ BOD				
✓ Oxygenates (8260B) ☐ 8 RCRA	Metals Nitrate	☐ Ethanol			
☑ EDB (8011) ☐ TPH	☐ Sulfate	☐ Dissolved Iron			
☐ PAH (8270D) ☐ pH	☐ Other				
Drinking Water Supply Wells:	_				
<u> </u>	(200.8 245.1 or 245.2))			
	letals (200.8)				
Soil:					
☐ BTEXNM ☐ Lead ☐ RCRA Metals	☐ TPH-DRO (3550B/8015B)	Grain Size			
☐ PAH ☐ Oil & Grease (90	071) TPH-GRO (5030B/8015B)				
Air:					
BTEXN					
Sample Collection (Estimate the number of sample	•	•			
· · · · · · · · · · · · · · · · · · ·	Supply WellsAir	2 Field Blank			
32 Monitoring Wells 2 Surfa	ace Water 2 Duplicate	2 Trip Blank			
Field Screening Methodology					
Estimate number and total completed depth for each	point, and include their proposed locations	on the attached map.			
# of shallow points proposed:	Estimated Footage:	feet per point			
# of deep points proposed:					
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:	· · · · · · · · · · · · · · · · · · ·	•			
# of deep wells:					
# of recovery wells:	Estimated Footage:	feet per point			
Comments, if warranted: -	<u> </u>				

UST Permit #: 02314 Facility Name: Maruti Kundal (Former Windsor Mart)
Implementation Schedule (Number of calendar days from approval) Field Work Start-Up: 14-30 days Field Work Completion: 30-45 days Report Submittal: 60 days # of Copies Provided to Property Owners: n/a
Aquifer Characterization Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)
Investigation Derived Waste Disposal Soil:Tons Purge Water:Gallons
Drilling Fluids: Gallons Free-Phase Product: Gallons
Additional Details For This Scope of Work For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc. Conduct a comprehensive groundwater sampling event; shallow monitoring wells MW-1, MW-2R, MW-3 through MW-27, recovery wells RW-1 and RW-2, and deep wells DW-1 through DW-3 will be sampled. The two drainage features (SW-1 and SW-2) approximately 800 to 1,000 feet to the east and west of the subject site will also be sampled. The monitoring wells were last sampled February 2015 or January 2017 and TERRY proposes purging prior to sampling.
Compliance With Annual Contractor Quality Assurance Plan (ACQAP) Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below. Name of Laboratory: SCDHEC Certification Number: Name of Laboratory Director: Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below. Name of Well Driller: SCLLR Certification Number: Other variations from ACQAP. Please describe below.
Attachments 1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
 Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following: North Arrow Location of property lines Location of buildings Previous soil sampling locations Previous monitoring well locations Previous monitoring well locations Previous soil boring locations Previous monitoring well locations Proposed monitoring well locations Location of all present and former ASTs and USTs Location of all potential receptors Proposed monitoring well locations
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



H1. Field Blank

ASSESSMENT COMPONENT COST AGREEMENT SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account

August 16, 2016 Healthy People. Healthy Communities Facility Name: Maruti Kundal (Former Windsor Mart) UST Permit #: 02314 Cost Agreement #: **Proposal** ITEM QUANTITY UNIT **UNIT PRICE** TOTAL 1. Plan Preparation \$150.00 \$150.00 A1. Site-specific Work Plan 1 each \$70.00 \$0.00 **B1. Tax Map** each C1. Tier II or Comp. Plan /QAPP Appendix B \$250.00 \$0.00 each 2. A1. Receptor Survey * each \$551.00 \$0.00 3. Survey (500 ft x 500 ft) A1. Comprehensive Survey each \$1,040.00 \$0.00 B. Subsurface Geophysical Survey \$0.00 1B. < 10 meters below grade \$1,300.00 each \$0.00 2B. > 10 meters below grade \$2,310.00 each \$0.00 C1. Geophysical UST or Drum Survey \$910.00 each 4. Mob/Demob \$1,020,00 \$0.00 A1. Equipment each 2 \$423.00 \$846.00 B1. Personnel (10, 17) each C1. Adverse Terrain Vehicle \$500.00 \$0.00 each 5. A1. Soil Borings (hand auger)* \$5.00 \$0.00 foot 6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)* per foot \$15.00 \$0.00 AA. Standard C1. Fractured Rock \$20.20 \$0.00 per foot 7. A1. Soil Leachability Model each \$60.00 \$0.00 8. Abandonment (per foot)* \$0.00 A1. 2" diameter or less per foot \$3.10 B1. Greater than 2" to 6" diameter \$4.50 \$0.00 per foot C1. Dug/Bored well (up to 6 feet diameter) per foot \$15.00 \$0.00 9. Well installation (per foot)* \$10.60 \$0.00 A1. Water Table (hand augered) per foot \$38.00 \$0.00 B1. Water Table (drill rig) per foot \$50.00 \$0.00 CC. Telescoping per foot \$58.00 \$0.00 DD. Rock Drilling per foot \$30.90 \$0.00 E1. 2" Rock Coring per foot G1. Rock Multi-sampling ports/screens per foot \$33.40 \$0.00 \$45.00 \$0.00 HH. Recovery Well (4" diameter) per foot II. Pushed Pre-packed screen (1.25" dia) per foot \$15.00 \$0.00 \$44.00 \$0.00 J1. Rotosonic (2" diameter) per foot K. Re-develop Existing Well per foot \$11.00 \$0.00 10. Groundwater Sample Collection / Gauge Depth to Water or Product * \$60.00 A1. Groundwater Purge 32 per well/receptor \$1,920.00 \$12.00 \$0.00 **B1. Air or Vapors** per receptor \$0.00 \$22.00 C1. Water Supply per well/receptor D1. Groundwater NP, SW (2), or Dup (2) per well/receptor \$28.00 \$112.00 \$7.00 \$0.00 E1. Gauge Well only per well F1. Sample Below Product \$12.00 \$0.00 per well G1. Passive Diffusion Bag \$26.00 \$0.00 each

2

each

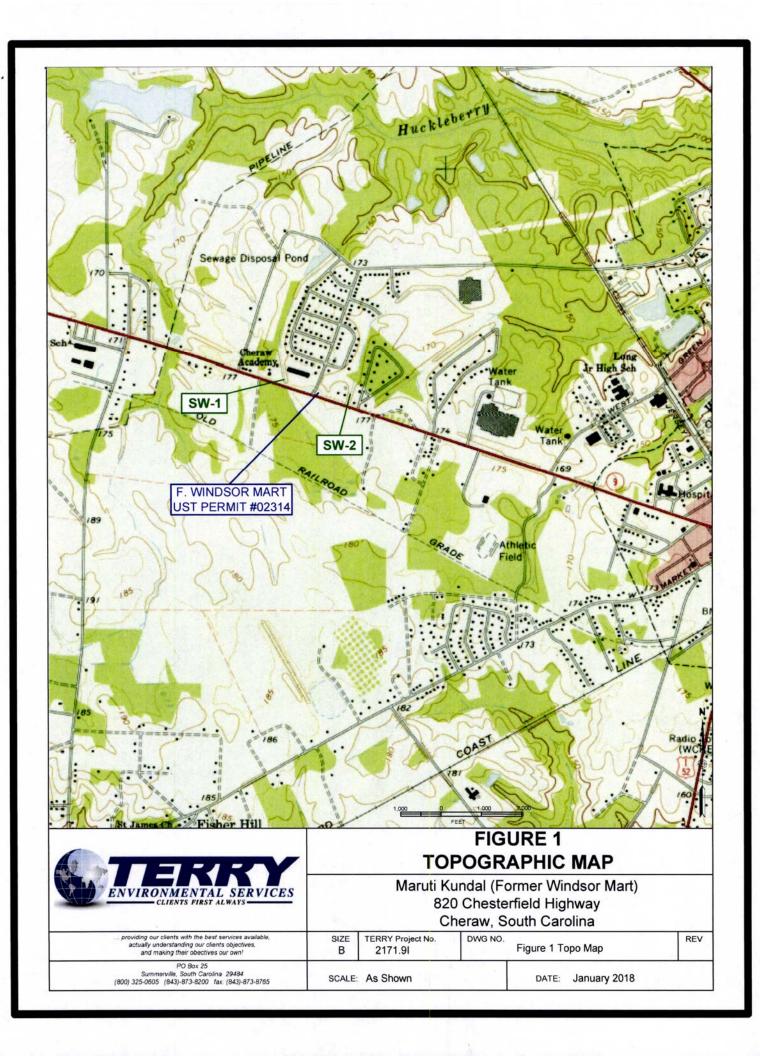
\$24.60

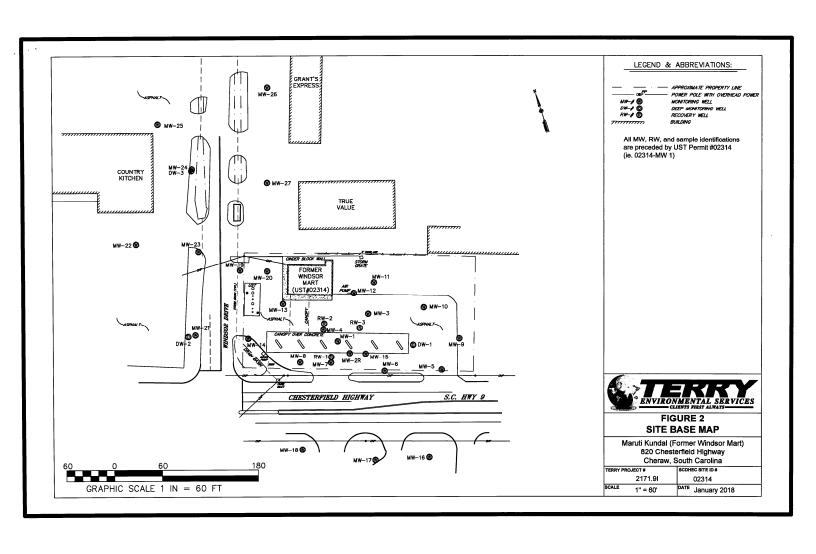
\$49.20

11. Laboratory Analyses-Groundwater		1			
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	l 40	per sample	\$122.00	4	\$4,880.00
AA1. Lead, Filtered	1	per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0.00
D1. PAH's		per sample	\$60.60		\$0.00
E1. Lead		per sample	\$16.00		\$0.00
F1. EDB by EPA 8011	38	per sample	\$45.20		\$1,717.60
FF1. EDB by EPA Method 8011 Rush	00	per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00 \$0.00
		1 '	\$5.20		\$0.00 \$0.00
II. pH		per sample	i		\$0.00 \$0.00
J1. BOD		per sample	\$20.00		· ·
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Drinking Water			0404.05	7	20.00
L. BTEXNM+1,2 DCA (524.2)		per sample	\$124.05	*	\$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	\$91.75		\$0.00
N. EDB (504.1)		per sample	\$79.50	X	\$0.00
O. RCRA METALS (200.8)		per sample	\$100.00	×.	\$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's	ļ	per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96	W	\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00
X1. Total Organic Carbon		per sample	\$30.60	*	\$0.00
11. Analyses-Air		1			
Y1. BTEX + Naphthalene		per sample	\$216.00		\$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per test	\$191.00		\$0.00
C1. Fractured Rock		per test	\$100.00	***	Ψ0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00		\$0.00
14. Fate/Transport Modeling		1 .		*	
A1. Mathematical Model	İ	each	\$100.00	*	\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*		each	\$260.00		\$0.00
17. Disposal (galions or tons)*					
AA. Wastewater	110	gallon	\$0.56		\$61.60
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal		ton	\$60.00		\$0.00
D1. Drilling fluids		gallon	\$0.42		\$0.00
18. Miscellaneous (attach receipts)				Ŵ	
		each	\$0.00		\$0.00
	[each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			\$0.00
21. IGWA (Use DHEC 3666 form)		standard			\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A1. 8-hour Event*		each	\$1,375.00	\$0.00
AA. 24-hour Event*		each	\$3,825.00	\$0.00
A3. 48-hour Event*		each	\$6,265.00	\$0.00
A4. 96-hour Event*		each	\$12,567.50	\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50	\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50	\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00	\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00	\$0.00
D. Site Reconnaissance		each	\$203.25	\$0.00
E1. Additional Hook-ups		each	\$25.75	\$0.00
F1. Effluent Disposal		gallon	\$0.44	\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50	\$0.00
24. Granulated Activated Carbon (GAC) filter system	n installation &	& service:		
A1. New GAC System Installation*		each	\$1,900.00	\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00	\$0.00
C1. Filter replacement/removal*		each	\$350.00	\$0.00
DD. GAC System removal, cleaning, & refurbishmen	it*	each	\$275.00	\$0.00
E1. GAC System housing*		each	\$250.00	\$0.00
F. In-line particulate filter		each	\$150.00	\$0.00
G1. Additional piping & fittings		foot	\$1.50	\$0.00
25. Well Repair				
A1. Additional Copies of the Report Delivered		each	\$50.00	\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00	\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00	\$0.00
D1. Repair well vault*		each	\$118.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
H1. Replace/Repair stick-up*		each	\$134.00	\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00	\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00	\$0.00
Report Prep & Project Management	12%	percent	\$9,736.40	\$1,168.37
TOTAL \$10,904.77				

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







UST 337 CKETI

FEB 1 3 2018

JACKSON OIL COMPANY INC 755 S 4[™] STREET HARTSVILLE SC 29550

Re: Groundwater Sampling Directive

Maruti Kundal Dba Country Cupboard 7, 820 Chesterfield Hwy., Cheraw, SC

UST Permit # 02314; CA # 56287 Release Reported December 06, 1991

Site-Specific Work Plan and cost proposal received January 30, 2018

Chesterfield County

To Whom It May Concern:

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

The groundwater sampling event should begin immediately upon receipt of this letter. Cost agreement # 56287 has been approved for the amount shown on the enclosed cost agreement form.

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

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Terry Environmental Services, Inc., can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

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

On all correspondence regarding this site, please reference UST Permit #02314. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0655, fax me at (803) 898-0673, or e-mail me at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist

any Wear

Corrective Action and Quality Assurance Section Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc.)

Technical file (with enc.)

Approved Cost Agreement

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

HOFFERQM PO Number:

Task / Description Categories	<u>Item Description</u>	Qty / Pct	Unit Price	Amount
01 FLAN		<u> </u>		
	A1 SITE SPECIFIC WORK PLAN	1.0000	\$150.000	150.00
04 MOB/DEMOB				
	B1 PERSONNEL	2.0000	\$423.000	846.00
10 SAMPLE COLLECTION		<u> </u>		
	A1 GROUNDWATER (PURGE)	32.0000	\$60.000	1,920,00
	D1 GROUNDWATER NO PURGE/DUPLICATE	4.0000	\$28,000	112.00
	H1 FELD BLANK	2.0000	\$24.600	49.20
11 ANALYSES				
GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	40.0000	\$122.000	4,880.00
	F1 EDB BY 8011	38.0000	\$45,200	1,717.60
17 DISPOSAL			4-0.200	1,717.00
	AA WASTEWATER	110.0000	\$0.560	61.60
19 RPT/PROJECT MINGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	\$9,736.400	1,168.37

Page 1 of 1

Total Amount 10,904.77

Document Receipt Information

Hard Copy	СР	Email Email
Date Received	4-2-18	
Permit Number	82314 Quincer	
Project Manager	Runcy	Hoffet
Name of Contractor	TES	·
UST Certification Number		
Docket Number		34 year
Scanned		
	Gwm	repat

GROUNDWATER MONITORING REPORT MARUTI KUNDAL (FORMER WINDSOR MART) 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #56287

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 873-8765 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9I

Kelly K. Cone, PG Vice President Jason A. Terry, PG

President



MARCH 2018



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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Maruti Kundal (Former Windsor Mart) (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company (Contact: Charles Jackson)

Address: 755 South 4th Street, Hartsville, SC 29550

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Name: Shealy Environmental Services Inc. (Shealy)

Address: 106 Vantage Point Drive, Columbia, SC 29172

Telephone: 803-791-9700

Certification: 32010

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently in Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	



Other Releases at this site? Yes	No _ XXXX
If yes, Date Release Reported to SCDHEC	n/a
Status of Release:	n/a
No Further Action Date:	n/a

7. Regional Geology and Hydrogeology

The Maruti Kundal (former Windsor Mart) site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County, the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work. However, during the surface water sampling activities a water supply well (WSW-1) was observed on the adjacent residential property to the east (802 Chesterfield Highway). The owner stated it was installed in the last few years for irrigation. Based on the USGS topographic map there are two drainage features located approximately 800 to 1,000 feet to the east and west of the subject site (SW-1 and SW-2).

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1,000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. The Site Potentiometric Maps (Figures 5A and 5B) are included in Section J. Based on the data, groundwater flow is generally to the north-northwest.

3

C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.



E. GROUNDWATER DATA

1. Groundwater Sampling Methodology

TERRY conducted a comprehensive groundwater sampling event on March 5, 2018 and March 6, 2018. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Monitoring wells MW-2R, MW-5, MW-6, and MW-17 were dry and monitoring wells MW-8 and MW-15 had an insufficient water column to collect field parameters. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Surface water locations (SW-1 and SW-2) were sampled. TERRY also collected a sample from the newly identified water supply well (WSW-1).

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging the deep wells with large casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs). The water supply well sample was collected after the well had run for approximately five minutes.

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 3.1. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for each day of sampling and analyzed for VOCs and 1,2-Dibromoethane (EDB). One field duplicate was collected for each batch of twenty samples and analyzed for VOCs and EDB. An additional field blank and field duplicate were collected for the water supply well sample and analyzed for VOCs and EDB.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 3.1 and the site-specific Addendum. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl tertiary butyl ether, 1,2-Dichloroethane, Oxygenates, Ethanol, and EDB. The water supply well sample, associated blank, and duplicate were analyzed per the drinking water methods.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 3.1. By-products were



initially stored onsite in a 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G. The field measurement equipment was properly calibrated prior to the sampling event and verified after four (4) hours of use and at the completion of the event. The calibration data for the sampling event is provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B.

2. Purging Methodology

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous sampling data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. For monitoring wells with smaller casing volumes, a new disposable bailer was utilized for purging. When utilized, bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the VOCs. In accordance with the SCDHEC UST QAPP, Revision 3.1, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 3.1. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:



SECTION E -2 GROUNDWATER MEASUREMENTS (PURGE SAMPLING) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA

			EC UST PERN							
02314-MW1	3/6/2018	SCDII	EC USI TERN	111 #02314						
02314-1(1)(1	5/0/2018 Free Product (1.45 ft.)									
02314-MW2R	3/6/2018									
V_011 111 (1	2/0/2010			Dry						
02314-MW3	3/6/2018									
Volume (gal)	Initial	0.5	1.0	1.5/Sample						
Time (military)	0932	0937	0942	0947						
pH (su)	6.00	6.10	6.11	6.12						
Spec Conductivity (mS/cm)	0.403	0.327	0.325	0.325						
Water Temperature (°C)	18.5	18.6	18.6	18.6						
Turbidity (NTU)	82.3	387	388	390						
Dissolved Oxygen (mg/L)	5.60	3.67	3.65	3.65						
02314-MW4	3/6/2018		A Secret Design	- House						
2000 Crist Co. Of Co. Crist Co. Crist 110]	Free Product (1.13)	ft.)					
02314-MW5	3/5/2018									
				Dry						
02314-MW6	3/6/2018									
				Dry						
02314-MW7	3/6/2018									
			1	Free Product (0.03)	ft.)					
02314-MW8	3/6/2018									
			Insuffic	cient Volume for Pa	arameters		_			
02314-MW9	3/5/2018									
Volume (gal)	Initial	0.5	1.0	1.5/Sample						
Time (military)	1633	1635	1637	1639						
pH (su)	4.42	4.35	4.37	4.37						
Spec Conductivity (mS/cm)	0.083	0.078	0.078	0.078						
Water Temperature (°C)	20.6	21.1	21.1	21.1						
Turbidity (NTU)	200	300	309	307						
Dissolved Oxygen (mg/L)	4.22	3.96	3.96	3.95						
02314-MW10	3/5/2018									
Volume (gal)	Initial	0.5	1.0	1.5/Sample						
Time (military)	1621	1624	1627	1630						
pH (su)	4.81	4.39	4.36	4.36						
Spec Conductivity (mS/cm)	0.104	0.106	0.107	0.107						
Water Temperature (°C)	21.2	20.9	20.9	20.9						
Turbidity (NTU)	172	140	139	139						
Dissolved Oxygen (mg/L)	4.12	4.20	4.22	4.22						
02314-MW11	3/5/2018	0.7	1.0	1.5/6 1	Г					
Volume (gal)	Initial	0.5	1.0	1.5/Sample						
Time (military)	1600	1603	1606	1609						
pH (su)	4.45	5.04	5.03	5.03						
Spec Conductivity (mS/cm) Water Temperature (°C)	0.080	0.084	0.085	0.085	-					
Turbidity (NTU)	20.1	20.9 204	20.9	20.9						
Dissolved Oxygen (mg/L)	4.86	3.59	201 3.59	201 3.59	+					
02314-MW12	3/5/2018	3.39	3.39	3.39						
Volume (gal)	J/5/2018 Initial	0.5	1.0	1.5/Sample	1	Т				
Time (military)	1611	1614	1.0	1.5/Sample 1620						
pH (su)	5.03	5.30	5.31	5.32						
Spec Conductivity (mS/cm)	0.113	0.110	0.109	0.108	1	+				
Water Temperature (°C)	20.5	21.1	21.1	21.1		+				
Turbidity (NTU)	128	103	101	101		+				
Dissolved Oxygen (mg/L)	3.74	3.15	3.13	3.13	+	+				
Dissolved Oxygen (mg/L)	5.14	3.13	3.13	3.13						

02314-MW13	3/6/2018					
Volume (gal)	Initial	0.5	1.0	1.5/Sample		
Time (military)	0905	0907	0909	0911		
pH (su)	5.20	5.15	5.14	5.14		
Spec Conductivity (mS/cm)	0.096	0.081	0.081	0.081		
Water Temperature (°C)	18.1	19.2	19.2	19.2		
Turbidity (NTU)	479	151	147	142		
Dissolved Oxygen (mg/L)	2.62	1.73	1.74	1.74		
02314-MW14	3/5/2018					
]	Free Product (0.98	ft.)	
02314-MW15	3/6/2018				result.	
			Insuffi	cient Volume for P	'arameters	
02314-MW16	3/5/2018					
Volume (gal)	Initial	0.75	1.5	2.25/Sample		
Time (military)	1742	1745	1748	1751		
pH (su)	4.17	4.10	4.10	4.09		
Spec Conductivity (mS/cm)	0.131	0.135	0.136	0.136		
Water Temperature (°C)	19.1	18.9	18.9	18.9	 	
Turbidity (NTU)	74.9	480	485	481	 	
Dissolved Oxygen (mg/L)	7.00	5.36	5.35	5.31	 	
02314-MW17	3/5/2018					
V20211121(1)	3/3/2010			Dry		
02314-MW18	3/5/2018					
Volume (gal)	Initial	0.75	1.5	2.25/Sample		
Time (military)	1720	1723	1726	1729		
pH (su)	4.93	4.55	4.55	4.54	 	
Spec Conductivity (mS/cm)	0.081	0.087	0.089	0.088	 	
Water Temperature (°C)	19.2	18.9	18.9	18.9		
Turbidity (NTU)	71.2	477	481	489		
Dissolved Oxygen (mg/L)	6.10	5.25	5.25	5.26		
02314-MW19	3/6/2018	3.23	3.23	3.20		
02314-1(1 ((1)	3/0/2010		1	Free Product (0.20	ft.)	
02314-MW20	3/6/2018			1001100000 (0.20	15.7	
Volume (gal)	Initial	0.75	1.5	2.25/Sample	Duplicate (DUP)	T
Time (military)	0850	0853	0856	0859	0901	
pH (su)	5.27	5.44	5.42	5.42	0,01	
Spec Conductivity (mS/cm)	0.263	0.201	0.202	0.202	†	
Water Temperature (°C)	14.4	15.2	15.2	15.2	 	
Turbidity (NTU)	165	330	331	331	 	
Dissolved Oxygen (mg/L)	4.99	4.21	4.21	4.21	 	
02314-MW21	3/5/2018	- 1 1 M L				, , , , , , , , , , , , , , , , , , ,
Volume (gal)	Initial	0.75	1.5	2.25/Sample	T T	
Time (military)	1353	1355	1357	1359	 	
pH (su)	5.06	4.17	4.17	4.17	 	
Spec Conductivity (mS/cm)	0.076	0.077	0.078	0.078	 	
Water Temperature (°C)	21.0	19.3	19.3	19.3	 	
Turbidity (NTU)	82.8	80.1	80.0	79.9	 	
Dissolved Oxygen (mg/L)	2.35	2.65	2.69	2.67	 	
02314-MW22	3/5/2018		2.07	2.07	<u> </u>	
Volume (gal)	Initial	0.75	1.5	2.25/Sample	T T	T
Time (military)	1315	1320	1325	1330	† †	
pH (su)	4.28	4.29	4.28	4.27	 	
Spec Conductivity (mS/cm)	0.296	0.101	0.100	0.099	+ +	
Water Temperature (°C)	19.9	20.4	20.4	20.4	+ +	
Turbidity (NTU)	492	12.7	11.1	10.0	+ +	
. T. (100)	10,000,000	1000000	2.76	2.75	 	
Dissolved Oxygen (mg/L)	6.25	2.79				



02314-MW23	3/6/2018					
Volume (gal)	Initial	0.75	1.5	2.25/Sample		
Time (military)	0824	0826	0828	0830		
pH (su)	4.56	5.44	5.48	5.48		
Spec Conductivity (mS/cm)	0.269	0.103	0.101	0.101		
Water Temperature (°C)	17.7	17.8	17.8	17.8		
Turbidity (NTU)	42.6	321	310	307		
Dissolved Oxygen (mg/L)	4.34	2.42	2.40	2.40		
02314-MW24	3/5/2018					
Volume (gal)	Initial	1.0	2.0	3.0/Sample		
Time (military)	1430	1433	1436	1439		
pH (su)	5.27	5.10	5.06	5.06		
Spec Conductivity (mS/cm)	0.236	0.323	0.323	0.323		
Water Temperature (°C)	20.2	19.0	19.0	19.0		
Turbidity (NTU)	220	99.5	99.7	99.7		
Dissolved Oxygen (mg/L)	2.10	5.15	5.12	5.10		
02314-MW25	3/5/2018	4700F086 F000	- CAPCHILLEY P	3100000		
Volume (gal)	Initial	1.0	2.0	3.0/Sample		
Time (military)	1455	1458	1501	1504		
pH (su)	5.04	4.31	4.30	4.30		
Spec Conductivity (mS/cm)	0.090	0.068	0.067	0.067		
Water Temperature (°C)	20.4	19.7	19.7	19.7		-+
Turbidity (NTU)	299	244	247	243		
Dissolved Oxygen (mg/L)	3.55	3.12	3.12	3.11		
02314-MW26	3/5/2018	3.12	3.12	3.11		
Volume (gal)	Initial	0.75	1.5	2.25/Sample	П	
Time (military)	1510	1513	1516	1519		
pH (su)	4.46	4.15	4.12	4.12		
Spec Conductivity (mS/cm)	0.061	0.055	0.054	0.054		
Water Temperature (°C)	20.7	20.5	20.5	20.5		
Turbidity (NTU)	402	419	420	420		
Dissolved Oxygen (mg/L)	3.43	2.90	2.87	2.87		
02314-MW27	3/5/2018	2.90	2.07	2.07		
Volume (gal)	Initial	1.0	2.0	2 O/Sampla		
Time (military)	1530	1533	1536	3.0/Sample 1539		_
pH (su)	4.36	4.34	4.34	4.34		
Spec Conductivity (mS/cm)	0.033	0.047	0.047	0.047		
Water Temperature (°C)	19.6	19.6	19.6	19.6		
Turbidity (NTU)	440	410	407	407		
Dissolved Oxygen (mg/L)	3.41	2.65	2.63	2.63		
02314-DW1	3/5/2018	2.03	2.03	2.03		
	977474.1151.15	2.25	(5/D /C 1 -			
Volume (gal) Time (military)	Initial	3.25	6.5/Dry/Sample			
	1800	1805	1810			
pH (su)	5.66	6.03	6.29			
Spec Conductivity (mS/cm) Water Temperature (°C)	0.168	0.161	0.159			
- 2	18.6	20.2	20.3			
Turbidity (NTU)	116	96.6	91.3			
Dissolved Oxygen (mg/L)	5.05	4.01	3.42			
02314-DW2	3/5/2018	1	T ====================================			
Volume (gal)	Initial	2.5	5/Dry/Sample		 	
Time (military)	1340	1343	1346			
pH (su)	5.83	6.24	3.95			
Spec Conductivity (mS/cm)	0.126	0.129	0.133			
Water Temperature (°C)	20.1	20.8	20.2			
Turbidity (NTU)	126	181	4.1			
Dissolved Oxygen (mg/L)	4.23	3.30	4.94			

02314-DW3	3/5/2018							
Volume (gal)	Initial	2.75	5.5/Dry/Sample					
Time (military)	1415	1420	1425					
pH (su)	5.88	6.14	6.12					
Spec Conductivity (mS/cm)	0.176	0.184	0.217					
Water Temperature (°C)	20.7	20.9	19.0					
Turbidity (NTU)	45.0	98.4	117					
Dissolved Oxygen (mg/L)	4.08	3.15	4.90					
02314-RW1	3/6/2018							
			Free	e Product (0.29 f	t.)			
02314-RW2	3/6/2018							
	Free Product (1.30 ft.)							
02314-RW3	3/6/2018							
Volume (gal)	Initial	3.75	7.5	11.25	15	18.75	22.5/Sample	
Time (military)	0952	0955	0958	1001	1004	1007	1010	
pH (su)	5.60	5.91	6.18	6.00	5.75	5.77	5.79	
Spec Conductivity (mS/cm)	0.053	0.057	0.059	0.049	0.047	0.046	0.045	
Water Temperature (°C)	18.9	18.8	18.8	18.9	19.5	19.5	19.5	
Turbidity (NTU)		133	487	451	438	437	437	
Dissolved Oxygen (mg/L)	3.66	4.03	5.60	4.11	3.56	3.54	3.54	
Volume (gal)	Duplicate (DUP)							
Time (military)	1012							
pH (su)								
Spec Conductivity (mS/cm)								
Water Temperature (°C)								
Turbidity (NTU)				_				
Dissolved Oxygen (mg/L)								

NOTES/KEY:

gal = gallons su = standard unit

mS/cm = milliSiemens per centimeter

NTU = nephelometric turbity units

mg/L = milligrams per liter

3. Free Product Measurements

Free-phase petroleum was measured in MW-1 (1.45 feet), MW-4 (1.13 feet), MW-7 (0.03 feet), MW-14 (0.98 feet), MW-19 (0.20 feet), RW-1 (0.29 feet), and RW-2 (1.30 feet) on March 5, 2018 and March 6, 2018. Therefore, monitoring/recovery wells MW-1, MW-4, MW-7, MW-14, MW-19, RW-1, and RW-2 were not sampled.

F. AFVR INFORMATION

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, TERRY conducted a comprehensive groundwater sampling event on March 5, 2018 and March 6, 2018 in accordance with the SCDHEC UST QAPP, Revision 3.1 and the associated site-specific work plan submitted in January 2018. Monitoring wells MW-2R, MW-5, MW-6, and MW-17 were dry and monitoring wells MW-8 and MW-15 had an insufficient water column to collect field parameters. Source area wells MW-1, MW-4, MW-7, MW-14, MW-19, RW-1, and RW-2 contain measurable free-phase petroleum.

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A and 4B. Based on the analytical data, groundwater contamination is present near the dispenser islands (MW-1, MW-3, MW-4, MW-7, MW-8, MW-14, MW-15, RW-1, RW-2, and RW-3), the UST basin (MW-13 and MW-19), and migrating in the direction of groundwater flow to the north-northwest (MW-12, MW-23, MW-24, MW-25, and MW-27). The plume is now horizontal undefined down gradient to the north-northwest. The plume is vertically defined. The samples collected from the surface water locations (SW-1 and SW-2) did not show evidence of petroleum contamination. The sample collected from the water supply well (WSW-1) did not show evidence of petroleum contamination.

The current analytical data in comparison to the limited January 2017 analytical data indicates a significant increase in free-phase petroleum and groundwater contamination. As such, it is recommended to conduct additional 96-hour AFVR events on the monitoring/recovery well network in the source area.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Groundwater Potentiometric Data - Attached

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Attached

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9I

			C 1			D 1 4	XX7 4 (D. 1.1	
*** 11 //	Sample	TOC	Screened	Depth to	Depth to	Product	Water Table	
Well #	Date	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation	
		ft	ft	ft	ft	ft	ft	
	3/19/1997			13.70	n/a	n/a	159.58	
	6/17/1997			16.07	n/a	n/a	157.21	
	12/9/2013			20.65	17.31	3.34	152.63	
02314-MW1	9/26/2014	173.28	10 to 20	19.60	16.82	2.78	153.68	
	2/2/2015				Free Produ	uct (1.20 ft)		
	1/3/2017			15.96	n/a	n/a	157.32	
	3/6/2018			20.53	19.08	1.45	152.75	
	6/17/1997			16.04	n/a	n/a	84.02	
02314-MW2	12/9/2013	100.06	10 to 20			Not Find		
	9/29/2014				Could I	Not Find		
	9/29/2014			17.60	n/a	n/a	156.32	
02314-MW2R	2/2/2015	173.92	10.3-20.3	15.72	n/a	n/a	158.20	
02314 WW 2K	1/3/2017	173.92	10.5 20.5	15.96	n/a	n/a	-15.96	
	3/6/2018				Г	Dry		
	6/17/1997			13.64	n/a	n/a	157.79	
	12/9/2013			15.86	n/a	n/a	155.57	
02314-MW3	9/26/2014	171.43	10 to 20	15.65	14.70	0.95	155.78	
02314 111113	2/2/2015	171.43			Free Product (1.0 ft)			
	1/3/2017	1		13.45	n/a	n/a	157.98	
	3/6/2018			17.07	n/a	n/a	154.36	
	6/17/1997	173.39		15.75	n/a	n/a	157.64	
	12/9/2013			18.80	16.91	1.89	154.59	
02314-MW4	9/26/2014		10 to 20	19.43	16.32	3.11	153.96	
02314-101004	2/2/2015	173.39	10 to 20	Free Product (0.80 ft)				
	1/3/2017			15.69	n/a	n/a	157.70	
	3/6/2018			19.95	18.82	1.13	153.44	
	9/29/2014			18.51	n/a	n/a	156.46	
02314-MW5	2/2/2015	174.97	9.9 to19.9	17.10	n/a	n/a	157.87	
02314-WW 3	1/3/2017	174.97	9.9 1019.9		Not C	Gauged		
	3/5/2018				Г	Pry		
	9/29/2014			18.17	n/a	n/a	156.40	
02314-MW6	2/2/2015	174.57	10.1 to 20.1	16.55	n/a	n/a	158.02	
02314-10100	1/3/2017	174.57		Not Gauged				
	3/6/2018				Б)ry		
	9/29/2014			18.09	17.86	0.23	156.11	
02314-MW7	2/2/2015	174.20	10.3 to 20.3	Free Product (0.27 ft)				
02314-WW/	1/3/2017	174.20	10.5 to 20.5	16.37	n/a	n/a	157.83	
	3/6/2018			19.86	19.83	0.03	154.34	
	9/29/2014			17.55	n/a	n/a	156.24	
02314-MW8	2/2/2015	173.79	10.3 to 20.3	16.11	n/a	n/a	157.68	
02314-1VI VV 0	1/3/2017	1/3./9	10.5 to 20.5	15.93	n/a	n/a	157.86	
	3/6/2018			19.45	n/a	n/a	154.34	
	9/29/2014			16.84	n/a	n/a	155.88	
02314-MW9	2/2/2015	172.72	0.0 to 10.0	14.73	n/a	n/a	157.99	
02314-WY	1/3/2017		9.9 to19.9		Not C	Gauged		
	3/5/2018			18.30	n/a	n/a	154.42	

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 TERRY PROJECT #2171.9I

		TOC	Depth to	Depth to	Product	Water Table		
Well #	Sample	Elevation (1)	Screened Interval	Water*	Product*	Thickness	Elevation	
VVCII #	Date	ft	ft	ft	ft	ft	ft	
	9/29/2014	It	It	15.85	n/a	n/a	156.24	
-	2/2/2015			13.83	n/a	n/a n/a	150.24	
02314-MW10		172.09	10.3 to 20.3	14.19		Gauged	137.90	
	1/3/2017	ł		17.79			154.30	
	3/5/2018				n/a n/a	n/a	154.30	
	9/29/2014	1		15.95	n/a	n/a		
02314-MW11	2/2/2015 1/3/2017	172.07	10.1 to 20.1	14.30		n/a Fauged	157.77	
	3/5/2017	1		17.83	n/a	n/a	154.24	
	9/29/2014			16.40	n/a	n/a	156.14	
	2/2/2015	1		14.76	n/a	n/a	157.78	
02314-MW12	1/3/2017	172.54	10.3 to 20.3	14.70		Gauged	137.76	
	3/5/2017	1		18.31	n/a	n/a	154.23	
	9/29/2014			17.20	n/a	n/a	155.44	
	2/2/2015	1		15.55	n/a	n/a	157.09	
02314-MW13	1/3/2017	172.64	10.3 to 20.3	14.95	n/a	n/a	157.69	
	3/6/2018	1	. .	18.48	n/a	n/a	154.16	
	9/29/2014			16.75	n/a	n/a	156.13	
	2/2/2015	172.88	10.3 to 20.3	15.15	n/a	n/a	157.73	
02314-MW14	1/3/2017			Not Gauged				
	3/5/2018	1		20.39	19.41	0.98	152.49	
	9/29/2014			17.90	n/a	n/a	155.95	
	2/2/2015	173.85	10.3 to 20.3	15.85	n/a	n/a	158.00	
02314-MW15	1/3/2017			15.88	n/a	n/a	157.97	
	3/6/2018			19.43	n/a	n/a	154.42	
	11/19/2014			21.50	n/a	n/a	155.47	
00014387716	2/2/2015	17607	160. 260	18.69	n/a	n/a	158.28	
02314-MW16	1/3/2017	176.97	16.0 to 26.0	Not Gauged				
	3/5/2018	1		22.29	n/a	n/a	154.68	
	11/6/2014		10.4 to 20.4	20.10	n/a	n/a	156.03	
00014 NOV17	2/2/2015	176 12		17.79	n/a	n/a	158.34	
02314-MW17	1/3/2017	176.13			Not Gauged			
	3/5/2018	1			D	ry		
	11/6/2014			19.74	n/a	n/a	155.85	
02314-MW18	2/2/2015	175.59	14.6 to 24.6	17.40	n/a	n/a	158.19	
02314-WW 16	1/3/2017	173.39	14.0 to 24.0		Not C	Gauged		
	3/5/2018			20.97	n/a	n/a	154.62	
	11/6/2014			16.32	n/a	n/a	155.18	
02314-MW19	2/2/2015	171.50	12.3 to 22.3	14.15	n/a	n/a	157.35	
02314-1VI VV 19	1/3/2017	171.30	12.5 10 22.5	13.95	n/a	n/a	157.55	
	3/6/2018			17.22	17.02	0.20	154.28	
	11/6/2014			16.63	n/a	n/a	155.19	
02314-MW20	2/2/2015	171.82	12.2 to 22.2	14.35	n/a	n/a	157.47	
3231+ WW 20	1/3/2017	171.02	12.2 10 22.2	14.30	n/a	n/a	157.52	
	3/6/2018			17.74	n/a	n/a	154.08	

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9I

	Sample	TOC	Screened	Depth to	Depth to	Product	Water Table	
Well #	Date	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation	
	Date	ft	ft	ft	ft	ft	ft	
	2/2/2015			16.55	n/a	n/a	157.42	
02314-MW21	1/3/2017	173.97	13.7 to 23.7		Not C	Gauged		
	3/5/2018			19.88	n/a	n/a	154.09	
	2/2/2015			14.65	n/a	n/a	157.30	
02314-MW22	1/3/2017	171.95	12 to 22		Not C	Gauged		
	3/5/2018			17.98	n/a	n/a	153.97	
	2/2/2015			13.72	n/a	n/a	157.31	
02314-MW23	1/3/2017	171.03	11.2 to 21.2	13.65	n/a	n/a	157.38	
	3/6/2018			17.04	n/a	n/a	153.99	
	2/2/2015		12.54	n/a	n/a	157.24		
02314-MW24	1/3/2017	169.78	11 to 21		Not C	auged		
	3/5/2018			15.90	n/a	n/a	153.88	
	2/2/2015	170.08	11 to 21	13.00	n/a	n/a	157.08	
02314-MW25	1/3/2017				Not Gauged			
	3/5/2018			16.26	n/a	n/a	153.82	
	2/2/2015	169.21		12.24	n/a	n/a	156.97	
02314-MW26	1/3/2017		10.4 to 20.4	Not Gauged				
	3/5/2018			15.42	n/a	n/a	153.79	
	2/2/2015			11.81	n/a	n/a	157.14	
02314-MW27	1/3/2017	168.95	10 to 20	Not Gauged				
	3/5/2018			14.97	n/a	n/a	153.98	
	9/29/2014	173.59	49.6 to 54.6	16.97	n/a	n/a	156.62	
02314-DW1	2/2/2015			15.37	n/a	n/a	158.22	
02314-DW1	1/3/2017	173.39		Not Gauged				
	3/5/2018			17.33	n/a	n/a	156.26	
	2/2/2015			16.59	n/a	n/a	157.78	
02314-DW2	1/3/2017	174.37	44.6 to 49.6	Not Gauged				
	3/5/2018			19.82	n/a	n/a	154.55	
	2/2/2015			13.72	n/a	n/a	156.21	
02314-DW3	1/3/2017	169.93	44.6 to 49.6		Not C	Gauged		
	3/5/2018			16.50	n/a	n/a	153.43	
02314-RW1	1/3/2017	Unknown	10 to 20	16.11	n/a	n/a	n/a	
02314-KW1	3/6/2018	Clikilowii	10 to 30	19.80	19.51	0.29	n/a	
02314-RW2	1/3/2017	Unknown	10 to 30	15.47	n/a	n/a	n/a	
02314-ICW 2	3/6/2018	Olikilowii	10 10 30	19.93	18.63	1.30	n/a	
02314-RW3	1/3/2017	Unknown	10 to 30		Not C	Gauged		
02314-K W 3	3/6/2018	Clikilowii	10 10 30	18.94	n/a	n/a	n/a	

Notes:

All Data Prior to December 2013 collected by others

 $Corrected\ elevation = Water\ table\ elevation + [(0.77)(free\ product\ thickness)]$

 $^{^{(1)}}$ TOC = Top of casing relative to an assumed data

^{* =} Measured relative to TOC

^{**}Corrected Elevation calculated using following equation:

GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9I SCDHEC UST PERMIT #02314 Ethyl MTBE 1,2-DCA Well# Benzene Toluene Xylenes EDB Lead TAME TBA DIPE ETBE ETBA Ethanol TAA TBF Date thalene 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 RBSL 1,000 700 10,000 0.05 15 128 1,400 150 N/A 10,000 N/A 1,350 12,730 <1,000 6/17/1997 1,270 6,510 6,470 367 02314-MW1 9/26/2014 Free Product (2.78 ft.) 15,000 46,000 2,800 17,000 440J <500 <500 <5,000 <10,000 280J <500 <10,000 480,000 28,000 <2,500</p> 3/6/2018 29 1.25 1.13 136.1 12/9/2013 6,400 18,000 1,600 8,800 11,000 40,000 2,600 15,000 87J <200 <4,000 <20,000 6,900 <1,000 9/29/2014 330 <200 <200 <2,000 <4,000 02314-MW2R 1/3/2017 380 <200 <200 <2,000 <4,000 130J <200 <4,000 <20,000 36,000 <1,000</p> 6/17/1997 12/9/2013 <1.0 102 <1.0 13.4 <5.0 <1.00 <3.0 374 <15.0 <5.00 18.5 <1.00 <1,000 02314-MW3 9/26/2014 1/3/2017 Free Product (0.95 ft.) 28 3/6/2018 230 310 1.300 < 5.0 5.6 <50 <100 <5.0 <5.0 <100 <500 380 6/17/1997 5,430 14,300 1,960 19,360 Free Product (1.89 ft.) 02314-MW4 15,000 42,000 3,000 17,000 470J 380J <500 <5,000 <10,000 660 <500 <10,000 2,500,000 61,000 <2,500 1/3/2017 9/29/2014 13 110 4.8 <1.0 <1.0 <1.0 <100 02314-MW5 3/5/2018 Dry 9/29/2014 02314-MW6 Free Product (0.23 ft.) 9/29/2014 02314-MW7 1/3/2017 3/6/2018 6,100 35,000 3,200 20,000 700 <500 <500 <5,000 <10,000 300J <500 <10,000 <50,000 32,000 <2,500</p> 9/29/2014 1/3/2017 <200 <100 <4,000 <2,000 3,700 12,000 1,300 7.200 180J <2,000 <4,000 <20,000 6,700 1,700 13,000 <100 <100 <1,000 <2,000 <10,000 7,100 2,000 12,000 230 <500 1.300 4.300 100 <400 18J <20 <400 < 2.000 11,000 0.54J <10 0.51J <1.0 <1.0 <1.0 <1.0 <1.0 02314-MW9 Not Sampled <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <1.0 <1.0 9/29/2014 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 <20 <5.0 02314-MW10 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.019 <10 <1.0 <20 <100 3/5/2018 <20 <1.0 <20 <5.0

TABLE 3 GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9I SCDHEC UST PERMIT #02314 Ethyl Naph thalene 1,2-DCA Well# Benzene Toluene Xylenes MTBE EDB Lead TAME TBA DIPE ETBE ETBA Ethanol TAA TBF Date ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L RBSI 700 10,000 128 1,400 150 47 N/A 10,000 N/A <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 <20 < 5.0 02314-MW11 Not Sample <1.0 <1.0 <1.0 <20 9/29/2014 0.38J <1.0 <1.0 5.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 51 < 5.0 02314-MW12 110 200 <100 3,200 21,000 1,700 8,600 110J 240 02314-MW13 3,400 12,000 1,300 9,100 320 <100 <100 <1,000 <2,000 <100 <100 <2,000 <10,000 10,000 <500 14,000 11,000 66J 3,400 1,800 9/29/2014 0.89J 5.9 0.99J <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 100 <5.0 02314-MW14 3/5/2018 750 5,900 120J <200 <2,000 <200 <4,000 <20,000 <1,000 02314-MW15 1/3/2017 8,300 37,000 2,800 19,000 570 <200 <200 <2,000 <4,000 <200 <200 <4,000 <20,000 37,000 <1,000 17,000 340 <20,000 10,000 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <100 <20 < 5.0 02314-MW16 1/3/2017 <10 <100 3/5/2018 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 11/6/2014 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 <20 <5.0 02314-MW17 3/5/2018 Dry <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 <20 11/6/2014 <5.0 02314-MW18 Not Sampled <1.0 <1.0 <1.0 <100 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <5.0 1,500 1,600 8,300 8,900 320 230 <200 <100 <200 <100 <1,000 <500 4,100 15,000 <200 <2,000 <4,000 <200 4,000 78,000 <4,000 02314-MW19 5,800 19,000 190 5,400 1,300 3,300 2,000 <20 <20 1,500 41 02314-MW20 6,000 19,000 1,600 9,700 220 <100 <100 <1,000 <2,000 <2,000 <10,000 18,000 <500 43J 2314-MW20 (DUP) 2,200 3,300 340 4,000 170 <1,000 <50 <1,000 <5,000 4,800 02314-MW21 ot Sample

<1.0

<1.0

1,600

900

1.800

02314-MW22

02314-MW23

<1.0

<1.0

5,000

2,200

5.500

<1.0

<1.0

540

300

520

<1.0

<1.0

4,000

2,300

3.200

<1.0

<1.0

<100

62

110

<1.0

<1.0

<100

<50

<1.0

<1.0

<100

<50

19

16

<10

<10

<500

<500

<1,000 <2,000

<20

<20

<1,000

<1.000

<1.0

<1.0

<100

<50

<1.0

<1.0

<20

< 2.000

<1,000

<100

<100

<10,000

<5,000

<1,000 <5,000 6,800

<20

<20

2,700

2,300

TABLE 3 GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9I SCDHEC UST PERMIT #02314 Sample Date Ethyl Naph thalene Well# MTBE 1,2-DCA TAME Benzene Toluene Xylenes EDB Lead TBA DIPE ETBE ETBA Ethanol TAA TBF ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L RBSI 0.05 15 128 1,400 150 47 N/A 10,000 N/A 4.2J 2.1 <1.0 0.81J <1.0 <1.0 <1.0 <0.019 <10 <1.0 <1.0 <100 <20 < 5.0 02314-MW24 Not Sample 11,000 4,000 91J 3,400 2/2/2015 1/3/2017 0.34J <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.020 34 <10 <20 <1.0 <1.0 <20 <100 <20 < 5.0 02314-MW25 220 <5.0 < 5.0 90 9.1 < 5.0 <5.0 <100 3.2J <5.0 <100 <500 620 <1.0 <1.0 <1.0 <1.0 02314-MW26 ot Sample <1.0 <10 2/2/2015 3.1 <1.0 <1.0 3.4 <1.0 <1.0 <1.0 < 0.019 9.8J <10 <20 <1.0 <1.0 <20 <100 24 <5.0 02314-MW27 3/5/2018 240 6.4 4.4J 33 4.8J < 5.0 <5.0 < 0.019 <50 52J 4.8J <5.0 <100 <500 1,200 <25 9/29/2014 0.20J0.85J <1.0 0.38J <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <100 02314-DW1 1/3/2017 <1.0 0.42J <100 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <100 <20 02314-DW2 1/3/2017 1.7 0.53J <10 <1.0 <1.0 <1.0 <1.0 <1.0 <100 46 7.8 0.61J 24 1.3 <1.0 <1.0 <0.019 <10 <10 <20 <1.0 <1.0 <20 <100 24 <5.0 02314-DW3 1/3/2017 <1.0 <1.0 310J <500 <10 <20 <1.0 280J <10,000 1,400 <1.0 <500 0.79J <1.0 <1.0 <1.0 <100 13,000 43,000 2,800 19,000 550 <10,000 <50,000 49,000 02314-RW1 <2,000 <4,000 7,900 24,000 2,200 13,000 280 150J <200 220 <200 <4,000 140,000 15,000 <1,000 02314-RW2 02314-RW3 1,600 7,500 5,000 64J <1.000 <100 <10.000 1,300J 12/9/2013 <1.00 <1.00 <1.00 < 3.00 < 5.00 <1.00 <1.00 < 5.00 < 5.00 <100 <1,000 1/3/2017 Not Sampled <1.0 <1.0 <1.0 <100 <1.0 <10 02314-SW2 1/3/2017 Not Sampled

TABLE 3 GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.91 SCDHEC UST PERMIT #02314

Well#	Sample Date	Benzene	Toluene	Ethyl benzene	Xylenes	Naph thalene	MTBE	1,2-DCA	EDB	Lead	TAME	TBA	DIPE	ETBE	ЕТВА	Ethanol	TAA	TBF
Units		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
RBSL		5	1,000	700	10,000	25	40	5	0.05	15	128	1,400	150	47	N/A	10,000	240	N/A
02314-WSW1	3/6/2018	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.0094		<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-WSW1 (DUP)	3/6/2018	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.0097		<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-FB1	3/5/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.019		<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-FB2	3/6/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.019		<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-TB1	3/5/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-FB-DW	3/6/2018	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.0098		<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-TB1	3/6/2018	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0

OZS14F1B1

NOTES/KEY:

— Not tested; not analyzed

RBSL = Risk-Based Screening Level

ug/L = miligrams per liter

g/L = miligrams per liter

J = Estimated value

DUP = Duplicate

Bold lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

MTBE = Methyl tertiary butyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibhomoethane
EDB = 1,2-Dibhomoethane
TAME = 1-umyl methyl ether or tert-Amyl methyl ether
TBA = 1-Butunol or tert-Butyl Alcohol
DIPE = diisopropyl Ether or hopropyl ether

ETBE = Ethyl tert-butyl ether
ETBA = ethyl tert-butanol or 3,3-Dimethyl-1-butanol
TAA = tert-amyl alcohol
TBF = tert-butyl formate
FB = Field Blank
TB = Trip Blank

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

4. Site Potentiometric Maps

Figure 5A Site Potentiometric Map (Shallow) - Attached

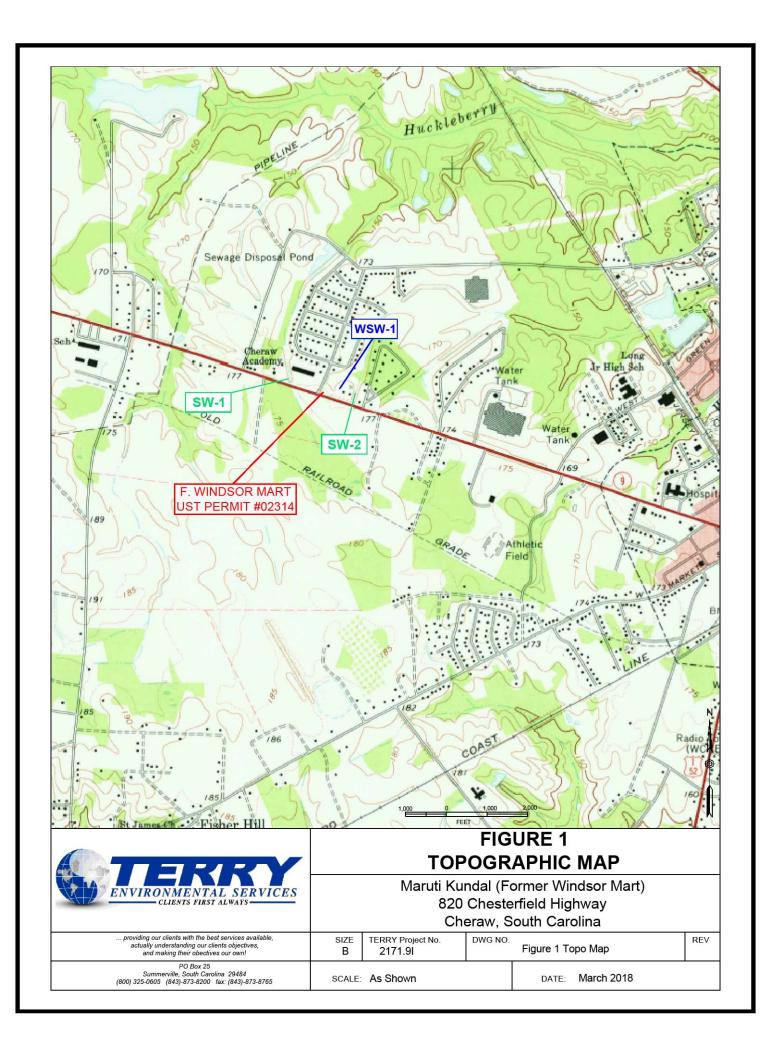
Figure 5B Site Potentiometric Map (Deep) - Attached

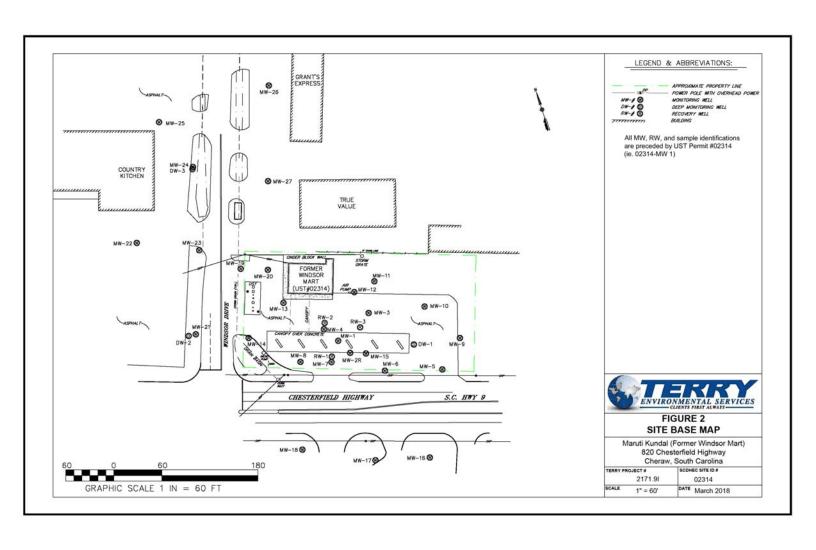
5. Geologic Cross Sections

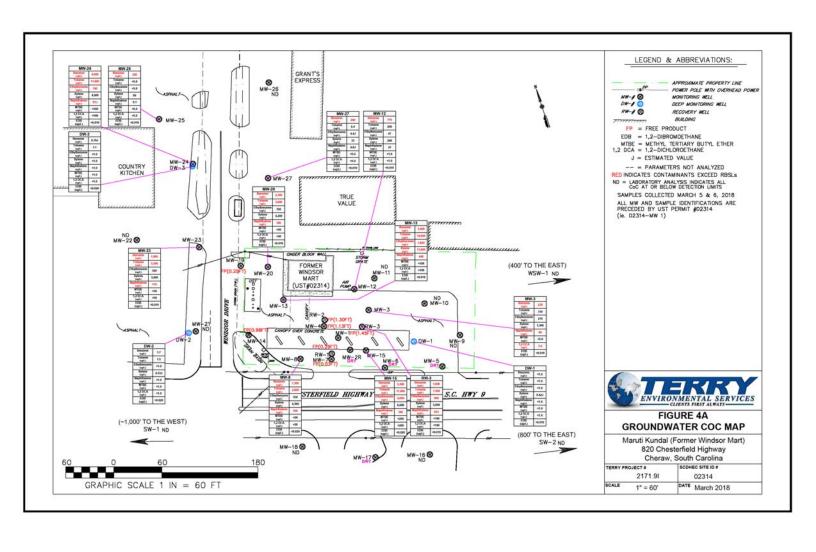
Figure 6 Geologic Cross Sections - Not Applicable

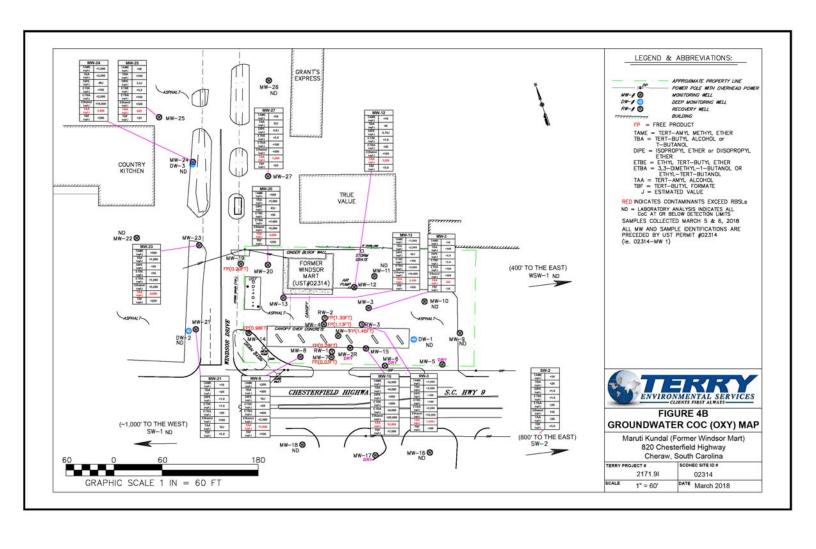
6. Predicted Migration and Attenuation of CoCs

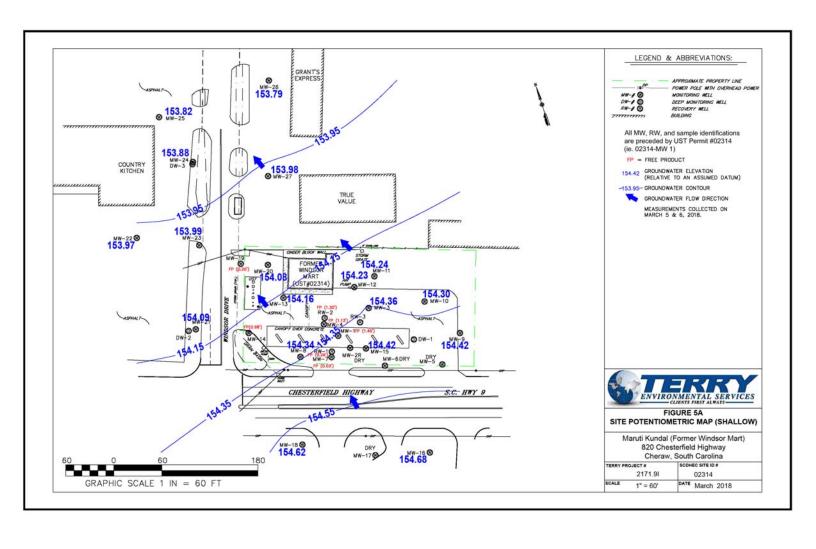
Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

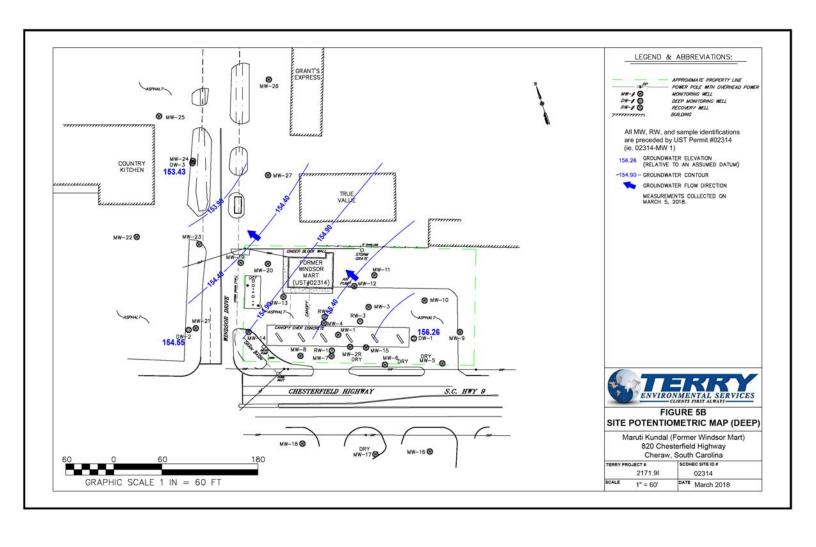












K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifest
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

TER	RYEN	vironmental .	Services	2					P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			M	onitoring V	Vell Informa		00 525 0005
Terry Project	ID	2171.91				Well ID	0231	4- Mw -	1
SCDHEC Permit	No.	02314							
Project Na	ime Mari	ıti Kundal (Former Windso	r Mart)	1	Testi	ng Parameters	1,5	oh, MTBE, 1	
L	Pate	3 / 6 /2018		1			Oxygenati	es, Ethanol,	& EDB
Field Person	inel	Hon JK				Well Diameter	2_	in	
General Weat	her	Overcust			50000000	eened Interval	10 -20	ft	TAG BOTTOM OI
Ambient Air Temperat	ure	45				nearest 0.1')	1	ft	WELL TO
	Quality A	ssurance		Depth to G	roundwater	(nearest 0.01')	1	ft	VERIFY WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2		Length of	Water Column	1	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9		1 Casing V	olume (0.163)	1	ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	4.00 su	3	3 Casing Va	olumes (0.489)	1	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm		Total V	olume Purged		gals	0.1
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	Purge Techi	nique Utiliz	ed (bailer, pum	ρ)		
Last Calibration (time)	0545	Last Verification (time)		Well	Yield	Low 🗆	Medium \square	High 🗆	
Volume (g	gal)								
Time (milita	ry)			F)					
pH ((su)								
Spec Conductivity (mS/c	cm)		75	Free	000	luct d	etected		
Water Temperature (°C) /				,				
Turbidity (N1	ru) /								
Dissolved Oxygen (mg									
	Vell Condition					Additiona	l Comments		
-overall condition acceptal	ble? 425			No jam	ve to	iken 4	ree prod	wit a	teited
					19.08	DTP	1		
-manhole and cover acceptal	ble?				20.53	DTW			
	ble?						thickne	55	
-area sa	ıfe?			Ligh.		in trai			
-other comme	ents			,		Table March	100000000000000000000000000000000000000		

TER	RY	En-CLIENT	Vironn S FIRST ALW	iental !	Services	5					P.O. Box 25 le, SC 29484 00-325-0605
	Site Sp	ecific l	Informatio.	n			M	onitoring V	Vell Informat		
Terry Proje	ect ID		21	71.91				Well ID	02314	4-MW-7	212
SCDHEC Perm	it No.		02	2314					DTEV N	LATRE	2.004
Project i	Name	Maru	ti Kundal (Fo	ormer Windso	r Mart)	1	Testi	ng Parameters	BTEX, Nap	s, Ethanol,	13
	Date		3140	/2018					Oxygenate	s, Emanoi,	& EDB
Field Pers	onnel		Hm.) K				Well Diameter	2	in	
General We	ather		0.00	cost			Ser	eened Interval	10.3-20.3	ft	TAG BOTTOM OF
Ambient Air Temper	ature		450			Total		nearest 0.1')	20.8/	ft	WELL TO
	Que	ality As	surance			Depth to G	roundwater	(nearest 0.01')	1	ft	VERIFY WELL
Meter	Horiba U	J-52-2		Meter	Horiba U-52-2		Length of	Water Column	1	ft	DEPTH,
Serial Number	VPTPG	A3X	or S	Serial Number	V3KNWUE9		1 Casing V	olume (0.163)		ft	WRITE BELOW TO
Calibration Constant	4.00	su	Calibra	tion Constant	4.00 su		Casing Va	lumes (0.489)		gals	NEAREST 0.1'
Calibration Constant				tion Constant	4.49 mS/cm		Total V	olume Purged		gals	0.1
Calibration Constant	ation Constant 0.0 NTU			tion Constant	0.0 NTU	Purge Techi	nique Utiliz	ed (bailer, pum	p)		
Last Calibration (time)	0815		Last Verij	fication (time)		Well	Yield	Low	Medium 🗆	High 🗆	20.8
Volume	(gal)										
Time (mil	itary)	1									
pF	l (su)	1									
Spec Conductivity (m.	S/cm)	/		NS	- D2-	1 @	2	0.8ft			
Water Temperature	e (°C) /	,									
Turbidity (NTU) /										
Dissolved Oxygen (n	ng/L)										
	Well Con	ndition	Informati	on				Additiona	l Comments		
-overall condition accep	table?	45	2 (
-well cap accep						No	Sam	ole ta	ken		
-manhole and cover accep						wil	1	1 at	depth of	20.	8ft
-well pad accept	table?										
-area	safe?								W.		
-other com	ments										
		1				7.4					
				> www. <i>t</i>	erryenvironn	nental.com	<				

TER	RYE	vironn	nental S	Services				Summervill	P.O. Box 25 le, SC 29484
	Site Specific	TO STORE A PROPERTY OF THE ACTION	Apod Met No Me		Λ.	Ionitoring U	'ell Informat	100	00-325-0605
T. n. i.			71.91			Well ID		1- MW- 3	
Terry Proje		1000	2314			77 CH 12	0221		
SCDHEC Permi			TO THE R. P. L. P.	- 1441	Tast	ing Parameters	BTEX, Nap		
Project 1			ormer Windso /2018	r Mart)	Test	ing I arameters	Oxygenate	s, Ethanol,	& EDB
	Date		*			Well Diameter		in	
Field Perso		Hm .	1447		C.	reened Interval	10-20	ft	TAG
General We		Orere	ast		Total Well Dep			- ft	BOTTOM OF WELL TO
Ambient Air Temper		41			Depth to Groundwate		17.0	ft	VERIFY
	Quality A	ssurance		los de social s	[520] 4 (50) 70		17.67		WELL DEPTH,
Meter	Horiba U-52-2	1		Horiba U-52-2		Water Column	2.43	ft	WRITE
Serial Number	VPTPGA3X	-	Serial Number	V3KNWUE9		Volume (0.163)	0.40		BELOW TO NEAREST
Calibration Constant	4.00 su	-	ation Constant	4.00 su		(0.489)	1.19	gals	0.1
Calibration Constant	4.49 mS/cm	-	ation Constant	4.49 mS/cm	1931995310011	Volume Purged	1.5	gals	
Calibration Constant	0.0 NTU		ation Constant	0.0 NTU	Purge Technique Util.			High 🗆	19.5
Last Calibration (time)	6815	Last Ver	ification (time)		Well Yield	Low	Medium \square	High 🗆	11.3
Volume	(gal) INT	0.5	1.0	1.5					
Time (mil	itary) 0932	0937	0942	0947					
pł	H (su) 6.50	6.10	10.11	6.12					
Spec Conductivity (m.		0.327	0,325	6.325					
Water Temperature		18.6	15.4	18.0					-
Turbidity (NTU) 82,3	337	388	390					- 1
Dissolved Oxygen (r		3.47	3,45	3.45			10		
	Well Condition	n Informat	ion			Additiona	d Comments		
-overall condition accep	table? Mijs	my bot	45						
-well can accen	table?				Modura	the poter	0 000		
-manhole and cover accep	table? Vaul	full of	seconen's	+ water					
-well pad accep									
-area	safe?								
adh an ann									

TER	1K	YEn	Vironn S FIRST ALW	nental !	Services	5							P.O. Box 25 ille, SC 29484 800-325-0605
	Site	Specific I	Informatio	n			N	1onitor	ing W	ell Info	rmai	tion	
Terry Proje	ect ID		21	71.9I				V	Vell ID		0231	4 - MW-	4
SCDHEC Perm	it No.		02	2314		100				DEEL		LAMBE	10001
Project /	Vame	Maru	ti Kundal (Fo	ormer Windso	r Mart)	1	Test	ing Para	meters		23.	oh, MTBE, es, Ethanol	
	Date		3/4	/2018						Oxyg	enate	s, Ethanol	, α Ευδ
Field Perso	onnel		Hm	114				Well Di	ameter	2		in	m. c
General We	ather			reaxt			Sc	reened I	nterval	10-20	3	/ft	TAG BOTTOM OF
Ambient Air Temper	ature		45			Total	Well Dep	th (near	est 0.1')			ft	WELL TO VERIFY
		Quality As	surance			Depth to Gr	oundwate	er (neares	st 0.01')		1	ft	WELL
Meter	Hor	iba U-52-2		Meter	Horiba U-52-2		Length of	Water C	olumn		1	ft	DEPTH, WRITE
Serial Number	VP	TPGA3X	or S	Serial Number	V3KNWUE9		1 Casing	Volume ((0.163)	1		ft	BELOW TO
Calibration Constant	1/2		Calibra	ition Constant	4.00 su	3	Casing V	olumes ((0.489)	1		gals	NEAREST 0,1'
Calibration Constant	Calibration Constant 4.49 mS/cm		Calibra	ition Constant	4.49 mS/cm		Total	Volume I	Purged	-/		gals	J
Calibration Constant	oration Constant 0.0 NTU		Calibro	ition Constant	0.0 NTU	Purge Techn	ique Utili	ized (bail	ler, pum _l	0)			
Last Calibration (time)	0 9	15	Lást Veri	fication (time)		Well	Yield	Low		Medium		High □	ı .
Volume	(gal)		/										
Time (mil	itary)	/											
рН	l (su)	1											
Spec Conductivity (m.	S/cm)	1		NS	- Free	produ	cet						
Water Temperature	(°C)	1				1							
Turbidity (NTU)	1											
Dissolved Oxygen (n													
	Well	Condition	Informati	on				Add	itiona	l Comm	ents		
-overall condition accept	table?	4	es										
-well cap accep	-overall condition acceptable?						18.	.32	PT?				
-manhole and cover accept	table?						19	.95	DTW)			
-well pad accep	table?	1				Fre	e ov	~ div	- 0	etiti	4	NOS	imple
-area	safe?	1					1	, 13	000	Just .	thic		•
-other com	ments	1				ligh	t br	nua		anspar			

TER		CLIENT	'S FIRST ALW	AYS —	Services	<u> </u>							P.O. Box 25 ville, SC 29484 -800-325-0605
	Sit	e Specific I	Informatio	n			N.	<i>1onitor</i>	ing W	Vell Infor	mat	ion	
Terry Proje	ect ID		21	71.91				И	Vell ID	()2314	1- MW	1-5
SCDHEC Permi	it No.		02	2314						DTEN	×1	L AMPRI	10001
Project /	Vame	Maru	ti Kundal (Fo	ormer Windso	r Mart)	1	Test	ing Para	meters	1921			, 1,2-DCA,
	Date		315	/2018						Oxyge	chate	s, Ethano	l, & EDB
Field Perso	onnel		Hm J	K				Well Die	ımeter	2		in	T1.0
General We	ather		Clear				Sc	reened Ir	iterval	99-19	.9	fì	TAG BOTTOM OF
Ambient Air Temper	ature		300			Tot	al Well Depi	th (neare	st 0.1')	19,9		ft	WELL TO VERIFY
		Quality As	ssurance			Depth to	Groundwate	r (neares	t 0.01')	/	0	fì	WELL
Meter	Hor	iba U-52-2		Meter	Horiba U-52-2		Length of	Water C	olumn	1		ft	DEPTH, WRITE
Serial Number	VI	TPGA3X	or S	Serial Number	V3KNWUE9		1 Casing	Volume (0.163)	1		ft	BELOW TO
Calibration Constant				tion Constant	4.00 su		3 Casing V	'olumes (0.489)	/		gals	NEAREST 0.1'
Calibration Constant	4.4	49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total !	Volume I	Purged			gals	
Calibration Constant		0.0 NTU		tion Constant	0.0 NTU	Purge Tec	hnique Utili	zed (baile					
Last Calibration (time)	13	00	Last Verij	fication (time)	1700	We	ll Yield	Low		Medium		High []
Volume	(gal)												
Time (mil	itary)	/											
pH	I (su)												
Spec Conductivity (m.)	S/cm)				NS-	well	dry	@	19.	95+			
Water Temperature	2 (°C)						X						
Turbidity (1	NTU)												
Dissolved Oxygen (n	0 /	F											
	Well		Informati	on				Add	itiona	l Comme	ents		
-overall condition accept	table?	U.	45										
-well cap accept	table?					wel	Ldr	1	et	19,0	1.5		
-manhole and cover accept	table?						no sa	mole	+	aken			
-well pad accept	table?						70 10 10 10 10 10 10 10 10 10 10 10 10 10	V					
-area	safe?												
-other com	ments												

TER	17		vironm S first alwa		Services	5					P.O. Box 25 ville, SC 29484 -800-325-0605
	Sit	e Specific I	Information	7			M	onitoring V	Vell Inform	nation	
Terry Proje				71.91				Well ID	02	2314 - MW	-60
SCDHEC Perm	it No.		02	314					DTEV	Naph, MTBE	1.2-DCA
Project !	Vame	Maru	ti Kundal (Fo	rmer Windso	r Mart)		Testin	g Parameters	Description (1977)	nates, Ethano	
	Date		3/6	/2018					Onjge	nates, Ethans	.,
Field Perso	onnel		HM)K)	Vell Diameter	2	in	TAG
General We	ather		Overcas	st-			Scre	ened Interval		, l ft	воттом он
Ambient Air Temper	ature		450	Offit.		Total	Well Depth	(nearest 0.1')	20.1	ft	WELL TO VERIFY
	Field Personnel General Weather bient Air Temperature Meter Horiba L Serial Number VPTPG bration Constant 4.00 bration Constant 0.0 N Calibration (time) 6815 Volume (gal) 1 N Time (military) pH (su)		surance			Depth to Gi	roundwater	(nearest 0.01')	1	ft	WELL
Meter	Ho	riba U-52-2		Meter	Horiba U-52-2		0 -	Vater Column	_/_	ft	DEPTH, WRITE
Serial Number	VI	PTPGA3X	or S	erial Number	V3KNWUE9		1 Casing V	olume (0.163)		ft	BELOW TO NEAREST
Calibration Constant		4.00 su	Calibra	tion Constant	4.00 su	j	Casing Vo	lumes (0.489)	/	gals	0.1'
Calibration Constant	4,	49 mS/cm	Calibra	tion Constant	4.49 mS/cm			olume Purged		gals	
Calibration Constant		0.0 NTU	1	tion Constant	0.0 NTU			ed (bailer, pun		□ High [7201
Last Calibration (time)	68	315	/Last Verif	fication (time)		Well	Yield	Low	Medium	☐ High [
Volume	(gal)	INT	(
Time (mil	litary)	1									
pl	H (su)	1						Λ.			
Spec Conductivity (m.	S/cm)	/		NS	- Pr	4 (20.	1++			
Water Temperature	e (°C)	1									_
Turbidity (NTU)	1/-									_
Dissolved Oxygen (i		<u> </u>		Selection 1				Addition	al Comme	ute	
			ı Informati	on				Addition	ii Comme	nus	
-overall condition accep								100	The Oile		
-well cap accep	table?						so sum	p12 Th	20.16		
-manhole and cover accep	otable?		41			L's	E 11 %	ry at	10.14	+	
-well pad accep	otable?										
-area	a safe?										
1 to 1 (2 € 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1	1000000000000	1									

TER	K	YEn	vire s firs	ONM T ALWA	ental !	Services	<u>S</u>					P.O. Box 2: le, SC 29484 00-325-060:
	Site	Specific I	Infori	mation	1			1	Monitoring V	Vell Informa	tion	
Terry Proje	ct ID			217	1.91				Well ID	0231	4-MW-	7
SCDHEC Permi	t No.			023	314					DTEV N	LATER	2.004
Project N	Vame	Maru	ti Kun	dal (For	rmer Windso	r Mart)		Tes	ting Parameters	10 10 10	oh, MTBE, 1 es, Ethanol,	
	Date		2	3/6	/2018					Oxygenau	es, Emanoi,	& EDB
Field Perso	onnel		H	M	IK				Well Diameter		in	TAG
General Wed	ather		0	erce	ust			Se	creened Interval	10.3-20.3	ft	TAG BOTTOM O
Ambient Air Temper	ature		- 1	450			Total	Well Dep	oth (nearest 0.1')	1	ft	WELL TO VERIFY
		Quality As	surai	nce			Depth to Gr	oundwat	er (nearest 0.01')		ft	WELL
Meter	Hori	ba U-52-2			Meter	Horiba U-52-2		Length of	f Water Column		ft	DEPTH, WRITE
Serial Number	VP	TPGA3X	or	Se	erial Number	V3KNWUE9	9	1 Casing	Volume (0.163)	1	ft	BELOW TO
Calibration Constant	4	1.00 su		Calibrat	ion Constant	4.00 su	3	Casing	Volumes (0.489)		gals	NEAREST 0.1'
Calibration Constant				Calibrat	ion Constant	4.49 mS/cm		Total	Volume Purged	(gals	0.1.
Calibration Constant			100		ion Constant	0.0 NTU	Purge Techn	ique Util	lized (bailer, pum	1312		
Last Calibration (time)			La	st Verifi	ication (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	
Volume	(gal)	/										
Time (mili	itary)	200										
рH	(su)	1										
Spec Conductivity (m.S	S/cm)	/			115-	Free	Produ	it				
Water Temperature	(°C)	/										
Turbidity (!	1	/										
Dissolved Oxygen (n	-											
	Well	Condition		rmatio	n					l Comments		
-overall condition accept	able? _	Me	5					note -	tuken, fi	ret produ	it dete	ched
-well cap accept	able?	1						.83	アナマ	1		
-manhole and cover accept	nanhole and cover acceptable?						10	1.86	DTW			
-well pad accept	able?	1						, 03	product	thickness		
-area	safe? _	-						brow	in color			
-other com	ments	-										

TER	RY	Envi	ronm Irst alway	ental !	Services	<u>s</u>				Summervill	P.O. Box 2: le, SC 2948- 00-325-060:
	Site Spe	cific Inf	ormation				Me	nitoring V	Vell Informat		
Terry Proje	ect ID		2171	1.91				Well ID	1,000		3
SCDHEC Perm	it No.		023	14					pmpu v	. Made i	4 D.O.
Project /	Name	Maruti K	Lundal (Fori	mer Windso	r Mart)	1	Testin	g Parameters	100 100	oh, MTBE, I	
	Date		3/6/	2018					Oxygenate	es, Ethanol,	X EDB
Field Pers	onnel		Hm)	K			V	Vell Diameter	2	in	
General We	ather		Overcast				Scre	ened Interval	10.3-20.3	ft	TAG BOTTOM O
Ambient Air Temper	ature		450			Total	Well Depth	(nearest 0.1')	20.4	ft	WELL TO
	Qua	lity Assu	rance			Depth to Gr	oundwater	(nearest 0.01')		ft	VERIFY WELL
Meter	Horiba U-	52-2		Meter	Horiba U-52-2		Length of W	ater Column	0.95	ft	DEPTH, WRITE
Serial Number	VPTPGA	3X or	Sei	rial Number	V3KNWUE9		I Casing Va	lume (0.163)		ft	BELOW TO
Calibration Constant	244 1500 / /d 900 900			on Constant	4.00 su	3	Casing Vol	lumes (0.489)	0.46	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/	cm	Calibratio	on Constant	4.49 mS/cm		Total Vo	lume Purged		gals	• • • • • • • • • • • • • • • • • • • •
Calibration Constant	0.0 NT	U		on Constant	0.0 NTU	Purge Techn	ique Utilize	d (bailer, pum			3 . (1
Last Calibration (time)	0815		Last Verific	ration (time)		Well 1	Yield	Low	Medium 🗆	High 🗆	20.4
Volume	(gal) N	T									
Time (mil	itary) 112	3									
рH	I (su)	,					^				
Spec Conductivity (m.	S/cm)			Insuff	icient	ulum	100	Oura	meters		
Water Temperature	e (°C) /				ZU	noce -	to lein				
Turbidity (1	NTU)										
Dissolved Oxygen (n											
	Well Con	dition In	formation	n				Additiona	l Comments		
-overall condition accept	table?	des									
-well cap accept	table?	1				San	nole.	taken a	but insuf	ticient	
-manhole and cover accept	table?						icola	m A	or some	itus	
-well pad accept	table?	-							¥ 2-112-2-1		
-area	safe?										
-other com	ments										
		A.									

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	Site Specific	Informatio	n			M	lonitoi	ing W	Vell Info	rmai	tion	
Terry Proje	ect ID	21	71.9I				V	Vell ID		0231	4- MW-	9
SCDHEC Perm	it No.	0:	2314						DTEV	Nam	L MTDE 1	2 DCA
Project 1	Vame Mari	uti Kundal (Fe	ormer Windso	r Mart)		Testi	ng Para	meters		(20)	oh, MTBE, 1 es, Ethanol, a	
·	Date	3 15	/2018						Oxyg	genate	zs, Ethanoi, e	X LDD
Field Perso	onnel	Han J	K				Well Di		2		in	TAG
General We	ather	Clea				Sci	reened I	nterval	9.9-19	19	ft	BOTTOM OF
Ambient Air Temper	ature	Some	3		Total	Well Dept	h (near	est 0.1')	19.9	100.1	ft	WELL TO VERIFY
	Quality A	ssurance			Depth to Gi	roundwate	r (neares	st 0.01')	18.30)	ft	WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2		Length of	Water C	olumn	1.60		ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or S	Serial Number	V3KNWUE9		1 Casing)	Volume ((0.163)	0.21	9	ft	BELOW TO
Calibration Constant	4.00 su	Calibro	ation Constant	4.00 su	<u>غ</u>	3 Casing V	olumes	(0.489)	0.78	7	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibro	ation Constant	4.49 mS/cm		Total V	olume l	Purged	1.	5	gals	
Calibration Constant	0.0 NTU	Calibro	ation Constant	0.0 NTU	Purge Techi	nique Utili	zed (bui					10 0
Last Calibration (time)	1300	Last Veri	ification (time)		Well	Yield	Low		Medium		High 🗆	19.9
Volume	(gal) INT	0.5	1.0	1.5								
Time (mil	itary) 1633	1635	1637	1639)						
pH	1 (su) 4.42	4.35	4.37	4.37					,			
Spec Conductivity (m.	S/cm) 0.083	0.078	0.078	0.078								
Water Temperature	e (°C) 20.6	21.1	21.1	21.1								
Turbidity (NTU) 200	300	309	307								
Dissolved Oxygen (r.		3,96	3.94	3.95								
	Well Condition		ion				Add	itiona	l Comm	ents		
-overall condition accep	table?Q	_\										
-well cap accep	table?											30
-manhole and cover accep		1										
-well pad accep	table?											
-area	safe?											
-other com	ments											

P.O. Box 25 **ERRY** Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9I Well ID 02314-MW-10 SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) Project Name **Testing Parameters** Oxygenates, Ethanol, & EDB 3/5 /2018 HAN SK Field Personnel Well Diameter in TAG General Weather Clear Screened Interval 0.3-20.3 ft воттом ог Total Well Depth (nearest 0.1') Ambient Air Temperature WELL TO 20,4 fì VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 17.79 ft WELL DEPTH. Horiba U-52-2 Meter Horiba U-52-2 Length of Water Column 2.61 ft Meter WRITE Serial Number VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) or Serial Number ft BELOW TO NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su 3 Casing Volumes (0.489) 0.1' Total Volume Purged Calibration Constant 4.49 mS/cm 4.49 mS/cm gals Calibration Constant 0.0 NTU 0.0 NTU Purge Technique Utilized (bailer, pump) Calibration Constant **Calibration Constant** 20.4 High \square Last Calibration (time) Last Verification (time) Well Yield Low 1300 Medium Volume (gal) 0.5 \$1.5 INT 1.0 1627 Time (military) 1621 1430 pH (su) 4.34 Spec Conductivity (mS/cm) 0,104 0.107 0107 20.9 Water Temperature (°C) 21.7 20. 20.9 Turbidity (NTU) 140 139 139 Dissolved Oxygen (mg/L) 4.12 4.20 4.22 Well Condition Information Additional Comments 405 -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TER	RYEN	vironn ts first alw	nental !	Services	5					P.O. Box 25
	Site Specific	Informatio	n			M	onitoring W	Vell Inform		00-325-0605
Terry Proje			71.91				Well ID		314 - Mw-1	1
SCDHEC Perm	it No.	0	2314							
Project /	Vame Mari	uti Kundal (F	ormer Windso	r Mart)		Testi	ng Parameters		aph, MTBE, 1	
	Date	3/5					3	Oxygena	ates, Ethanol,	& EDB
Field Perso	onnel	HM.	١ř				Well Diameter	2	in	
General We	ather	Clea	A. C. C. C. C. C. C. C. C. C. C. C. C. C.			Scr	eened Interval	10,1-20.1	ft	TAG BOTTOM OI
Ambient Air Temper	ature	55	3		Total	Well Deptl	(nearest 0.1')	20.1	ft	WELL TO
	Quality A	ssurance			Depth to Gr	oundwater	(nearest 0.01')	17.83	ft	VERIFY WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2		Length of	Water Column	2.27	ft	DEPTH,
Serial Number	VPTPGA3X	or .	Serial Number	V3KNWUE9	16	1 Casing V	olume (0.163)	.37	ft	WRITE BELOW TO
Calibration Constant	4.00 su	Calibra	ution Constant	4.00 su	3	Casing Vo	lumes (0.489)	1.11	gals	NEAREST 0,1'
Calibration Constant	4.49 mS/cm	Calibro	ation Constant	4.49 mS/cm		Total V	olume Purged	1.5	gals	0,1
Calibration Constant	0.0 NTU	Calibro	ation Constant	0.0 NTU	Purge Techn	ique Utiliz	ed (bailor, pum	n)		7 . 1
Last Calibration (time)	1300	Last Veri	fication (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	20.1
Volume	(gal) INT	0.5	1.0	1.5						
Time (mil	itary) (600	1603	1606	1609						
рН	1 (su) 4,45	5.04	5.03	BOULD 5.03	N .					
Spec Conductivity (m.	S/cm) 0 . 080	0.084	0.085	0.085						
Water Temperature	(°C) 20.1	20,9	20.9	20.9						
Turbidity (!	VTU) 212	204	201	201						
Dissolved Oxygen (n	0 /	3,59	3.59	3.59						
	Well Condition		on				Additiona	l Comment	S	
-overall condition accept	table?	10)								
-well cap accept	table?									
-manhole and cover accept	table?									
-well pad accept	table?									
-area	safe?									
-other com	ments	Mi								

P.O. Box 25 **ERRY** Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.91 Well ID 02314 - Mw-12 SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB 3/5/2018 Field Personnel HM Well Diameter TAG 10.3-20.3 General Weather Screened Interval ft BOTTOM OF Ambient Air Temperature Total Well Depth (nearest 0.1') ft WELL TO 20.4 VERIFY Depth to Groundwater (nearest 0.01') Quality Assurance 18.31 ft WELL DEPTH. Horiba U-52-2 Horiba U-52-2 Length of Water Column 2.09 ft Meter Meter WRITE VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) 0.34 ft Serial Number Serial Number BELOW TO or NEAREST Calibration Constant 4.00 su 4.00 su 3 Casing Volumes (0.489) Calibration Constant gals 0.1 4.49 mS/cm Calibration Constant 4.49 mS/cm Total Volume Purged Calibration Constant gals 0.0 NTU 0.0 NTU Purge Technique Utilized (bailer, pump) Calibration Constant **Calibration Constant** 20,4 High 🗆 Last Calibration (time) Last Verification (time) Well Yield Low Medium 1300 0.5 1.3 1.5 Volume (gal) INT Time (military) 1617 1620 161 1614 5.32 5.31 pH (su) :03 Spec Conductivity (mS/cm) 0.109 0.108 0.113 0.110 21.1 Water Temperature (°C) 20,5 21.1 Turbidity (NTU) 101 101 103 Dissolved Oxygen (mg/L) 3.74 3,13 3,13 Well Condition Information Additional Comments -overall condition acceptable? 405 -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TER		CLIEN	TS FIRST ALW.	AYS —	Service	5					Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site	e Specific .	Informatio	n			N.	Ionitoring	Vell Info	rmat	ion	
Terry Proje	ect ID		21	71.91				Well IL		02314	1- MW-	13
SCDHEC Permi	it No.		02	2314								
Project /	Name	Maru		ormer Windso	or Mart)		Test	ing Parameters			h, MTBE, 1 s, Ethanol, a	
	Date		3/6	/2018					Onyg	chate	s, Ethanoi, i	X LDD
Field Perso	onnel		HM					Well Diameter			in	TAG
General We	ather		Ove	reast			Sci	reened Interva	10:3-70	5.3	ft	BOTTOM OF
Ambient Air Temper	ature		7.50			Tota	l Well Dept	h (nearest 0.1',			ft	WELL TO VERIFY
		Quality A.	ssurance			Depth to C	iroundwate	r (nearest 0.01',		8	ft	WELL
Meter	Hor	riba U-52-2		Meter	Horiba U-52-2		Length of	Water Column			ft	DEPTH, WRITE
Serial Number			or S	Serial Number	V3KNWUE9		1 Casing 1	Volume (0.163)			ft	BELOW TO
Calibration Constant	Nece 5		Calibra	ition Constant	4.00 su		3 Casing V	olumes (0.489)	0,59		gals	NEAREST 0.1'
Calibration Constant	dibration Constant 4.49 mS/cm		Calibra	tion Constant	4.49 mS/cm			olume Purgea			gals	1000
Calibration Constant		0.0 NTU		tion Constant	0.0 NTU			zed (bailer, pun				7 . 9
Last Calibration (time)	03	15		fication (time)		Well	Yield	Low	Medium		High 🗆	70.3
Volume	(gal)	MT	0.5	1.0	1.5							
Time (mili			0907	0909	0911							
		5,20	5.15	5.14	5.14							
Spec Conductivity (m.S	S/cm)		6.081	180:0	Diosi							
Water Temperature	1	18.1	19.2	19.2	19.2							
Turbidity (!			151	147	142							
Dissolved Oxygen (n			1.73	1.74	1.14							
			Informati	on				Addition	il Comme	ents		
	-overall condition acceptable?											
	-well cap acceptable?											
-manhole and cover accept												
-well pad accept	_											
3632	safe?	1										
-other com	ments											

TER	15	En	vironn s first alwa	nental .	Services	3				Summervill	P.O. Box 25 e, SC 29484 00-325-0605			
	Sit	e Specific I	nformation	n	Monitoring Well Information									
Terry Proje	ct ID		21	71.91		1-1		Well ID	02314	4-Mw-1	4			
SCDHEC Permi	it No.		02	2314					DTEV N	L MTDE I	2.004			
Project N	Vame	Maru	ti Kundal (Fo	rmer Windso	r Mart)		Testin	ig Parameters	BTEX, Nap	n, MTBE, 1 s, Ethanol, 6	0.0			
	Date		3/5	/2018					Oxygenate	s, Editation,	X LDB			
Field Perso	onnel		HM 1	14				Well Diameter	2	in	TAG			
General We	ather		Gear	1			Scr	eened Interval		ft	BOTTOM OF			
Ambient Air Temper	ature		550			Total	Well Deptl	(nearest 0.1')		ft	WELL TO VERIFY			
		Quality As	surance			Depth to G	roundwater	(nearest 0.01')	100000023	,39 ft	WELL			
Meter	Hor	riba U-52-2	Į	Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE			
Serial Number	VI	PTPGA3X	or S	Serial Number	V3KNWUE9	1 Casing Volume (0.163) 3 Casing Volumes (0.489)				ft	BELOW TO			
Calibration Constant		4.00 su	Calibra	tion Constant	4.00 su					gals	NEAREST 0.1'			
Calibration Constant	4.	49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	olume Purged		gals				
Calibration Constant	(0.0 NTU	Calibra	tion Constant	0.0 NTU	Purge Techi								
Last Calibration (time)	13	00	/ Last Verij	fication (time)	1700	Well Yield Low			Medium 🗆	High 🗆				
Volume	(gal)	/												
Time (mili	itary)													
pH	l (su)	/.			_									
Spec Conductivity (m.S	S/cm)	/		NS-	Free	brog	uct							
Water Temperature	(°C)					1								
Turbidity (?	NTU)													
Dissolved Oxygen (n														
Well Condition Information							Additional Comments							
-overall condition acceptable?						Diesel dispenser ~ 25 ft from well								
-well cap acceptable?						19, 41 PTP								
-manhole and cover acceptable?							20.39							
-well pad accept	table?						0.98	Free p	roduct th	nikal 53				
-area	safe?						No	Sample	taken					
-other com	ments		t .			Dark	brown	transpo	went predu	net on v	vater colum			

TER		CLIENT	S FIR	ST ALWA	AYS —	Services	<u> </u>					P.O. Box 25 le, SC 29484 00-325-0605
	e Specific I	nfoi	rmatio	n		M	onitoring W	Vell Informa	tion			
Terry Proje	ect ID			21	71.91				Well ID	0231	4-MW-1	5
SCDHEC Perm	it No.			02	2314					DTEV Now	oh, MTBE, 1,2-DCA,	
Project 1	Vame	Maru	ti Ku	ndal (Fo	ormer Windso	r Mart)		Testin	g Parameters	1990 12	es, Ethanol,	
	Date			3/6	/2018					Oxygenate	os, Editation,	C LDB
Field Perso	onnel		40	4)	K			ļ	Vell Diameter	2	in	TAG
General We	ather		0.	recu	st			Scre	ened Interval	10.3-20.3	ft	воттом он
Ambient Air Temper	ature			45	3.0.1		Total	Well Depth	(nearest 0.1')	20.4	ft	WELL TO VERIFY
		Quality As	surc	ince			Depth to Gr	oundwater	(nearest 0.01')	19.43	ft	WELL
Meter	Hor	riba U-52-2			Meter	Horiba U-52-2	Length of Water Column			0.97	ft	DEPTH, WRITE
Serial Number	VI	PTPGA3X	or	S	Serial Number	V3KNWUE9	1 Casing Volume (0.163)			0.16	ft	BELOW TO
Calibration Constant		4.00 su		Calibra	tion Constant	4.00 su	3 Casing Volumes (0.489)			0.47	gals	NEAREST 0.1'
Calibration Constant	4.	49 mS/cm		Calibra	tion Constant	4.49 mS/cm	Total Volume Purged				gals	
Calibration Constant		0.0 NTU			tion Constant	0.0 NTU	Purge Technique Utilized (baile), pum					20.4
Last Calibration (time)	08	15	Last Verification (time)			Well	Yield	Low	Medium 🗆	High 🗆	20.4	
Volume	(gal)											
Time (mil	itary)	1105,										
pH	I (su)											
Spec Conductivity (m.	S/cm)	/_			Insuffi	cient v	olume	for	paran	eters		
Water Temperature	' '	1				same	es +	aking	,			
Turbidity (1										
Dissolved Oxygen (n	.,	/	Y (4.1.1:4:	10		
Well Condition Information								Aaamona	l Comments			
-overall condition accept		1	5						· c \ (112		
-well cap acceptable?							instending the for par				1	_
-manhole and cover accept							inv.	Ens.ry	h water	for par	rameter	>
-well pad accept								-			-	
	safe?											
-other com	ments											

TER	CLIEN	vironmental	Services	5				P.O. Box 25 le, SC 29484 00-325-0605			
	Site Specific	Information		Monitoring Well Information							
Terry Proje	ect ID	2171.91			Well ID	0231	4- Mw-1	اه			
SCDHEC Permi	it No.	02314			DTEV No.	oh, MTBE, 1	2.004				
Project 1	Vame Mar	uti Kundal (Former Winds	or Mart)	Testi	ng Parameters	Oxygenate					
	Date	3 / 5 /2018				Oxygenati	es, Ethanol,	C LDB			
Field Perso	onnel	HM JK			Well Diameter	2	in	TAG			
General We	ather	Clear		Scr	eened Interval	16-26	ft	BOTTOM OF			
Ambient Air Temper	ature	50,		Total Well Depti	h (nearest 0.1')	24.0	ft	WELL TO VERIFY			
	Quality A	ssurance		Depth to Groundwater	r (nearest 0.01')	22.29	ft	WELL			
Meter	Horiba U-52-2	Meter	Horiba U-52-2	Length of	Water Column	3.71	ft	DEPTH, WRITE			
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	1 Casing V	0.00	ft	BELOW TO				
Calibration Constant	4.00 su	Calibration Constant	4.00 su	3 Casing Vo	1.81	gals	NEAREST 0.1'				
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	Total V	2.25	gals	37.5				
Calibration Constant	0.0 NTU	Calibration Constant		Purge Technique Utiliz		200					
Last Calibration (time)	1300	Last Verification (time)	1700	Well Yield	Low	Medium 🗆	High 🗆	26.0			
Volume	10	0.75 1.5	2.25								
Time (mili	itary) 1742	1745 1748	1001751								
рН	1 (su) 1,17	4.10 4.10	4.09								
Spec Conductivity (m.	/	0.135 0.136	0.136								
Water Temperature	(°C) 19.1	18.9 18.9	13.9								
Turbidity (/	NTU) 74.9	480 485	481								
Dissolved Oxygen (n		5.36 5.35	5.31								
	Well Condition	n Information	Additional Comments								
-overall condition accept	table?	<u> </u>									
-well cap accept	table?										
-manhole and cover accept	table?										
-well pad accept	table?										
-area	safe?										
-other com	ments										

TER	15	En	vir es fir	ONN	nental !	Services	5					Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Sit	e Specific I	Info	rmatio	n	Monitoring Well Information							
Terry Proje	ct ID			21	71.9I				Well ID			4-MW-	17
SCDHEC Permi	it No.			02	2314					DTEV		1 MEDE 1	2 DC4
Project !	Vame	Maru	ti Ku	ndal (Fo	ormer Windso	r Mart)	1	Testin	g Parameters	1	(5) B	h, MTBE, 1 es, Ethanol, a	557
	Date			315	-/2018				371	Oxyg	genate	s, Emanoi,	X EDB
Field Perso	onnel		Hr	1 1	iL			j	Vell Diameter	2		in	TAG
General We	ather		(Scre	ened Interval		20.4	ft	BOTTOM OF
Ambient Air Temper	ature	1		-lear			Total	Well Depth	(nearest 0.1')	20,4		ft	WELL TO VERIFY
		Quality As	ssura	ance			Depth to Gi	roundwater	(nearest 0.01')	-		ft	WELL
Meter	Ho	riba U-52-2			Meter	Horiba U-52-2		Length of V	Vater Column	-		ft	DEPTH, WRITE
Serial Number	VI	PTPGA3X	or	3	Serial Number	V3KNWUE9	1 Casing Volume (0.163)			_		ft	BELOW TO
Calibration Constant		4.00 su		Calibra	ition Constant	4.00 su	3 Casing Volumes (0.489)			_		gals	NEAREST 0.1'
Calibration Constant	4.	49 mS/cm		Calibra	tion Constant	4.49 mS/cm	Total Volume Purged					gals	
Calibration Constant	(0.0 NTU		Calibra	tion Constant	0.0 NTU	Purge Techi	p)			2 (1		
Last Calibration (time)	13	00	Last Verification (time)		1700	Well Yield Low		Medium		High □	20,4		
Volume	(gal)	INT											
Time (mil	itary)												
рH	l (su)	1											
Spec Conductivity (m.)	S/cm)	1			20	Sample	2	DEY	P	20	4		
Water Temperature	(°C)												
Turbidity (1	VTU)												
Dissolved Oxygen (n		V											
Well Condition Information								Additiona	ıl Comm	ents			
-overall condition accept	table?	40	25										
-well cap accept	table?	1						10	1	9	_		
-manhole and cover accept	table?							12-	1757	(w	w	4 4	
-well pad accept	table?												
-area	safe?		\										
-other com	ments												

TER	CLIEN	vironmental	Services	<u>S</u>				P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information		Monitoring W	ell Informa	tion		
Terry Proje	ect ID	2171.91			0231	8		
SCDHEC Perm	it No.	02314				DTEV No.	L MTDE 1	2 DC4
Project 1	Vame Maru	uti Kundal (Former Windso	r Mart)	Te	sting Parameters		oh, MTBE, 1 es, Ethanol,	
	Date	3 / < /2018				Oxygenati	cs, Ethanoi,	& LDD
Field Perso	onnel	HM JK			Well Diameter	2	in	TAG
General We	ather	Clear		12	Screened Interval	14.6-24.6	ft	воттом оғ
Ambient Air Temper		55			pth (nearest 0.1')	24.60	ft	WELL TO VERIFY
	Quality A	ssurance		Depth to Groundwa	ter (nearest 0.01')	20.91	ft	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2	Length	of Water Column	3.63	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	1 Casin	g Volume (0.163)		ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	4.00 su	3 Casing	1.78	gals	NEAREST 0.1'	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm		l Volume Purged		gals	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	Purge Technique Ut				201
Last Calibration (time)	1300	Last Verification (time)	1755	Well Yield Low 🗆		Medium	High 🗆	24.6
Volume		0.75 1.5	2.25					
Time (mil	itary) 1120	1723 1726	1129					,
	1 (su) 4.93	4.55 4.55	4,54					
Spec Conductivity (m.		0.087 0.089	0,058					
Water Temperature		18.9 18.9	15.9		III			
	NTU) 71.2	477 481	489					
Dissolved Oxygen (n		5.25 5.25	5.24		4.1.04	16		
	Well Condition			Additiona	l Comments			
-overall condition accep								
	table?							
-manhole and cover accep								
-well pad accep								
	safe?							
-other com	ments							

TER	15	Y En	viron s first al	mental .	Services	<u>S</u>					P.O. Box 2: erville, SC 29484 1-800-325-0603	
	Sit	e Specific I	Informati	on		M	lonitoring V	Vell Inform	rtion			
Terry Proje	ect ID		2	2171.91				Well ID	023	14 - MW	-19	
SCDHEC Perm	it No.			02314					DWDV N	LAMED	E 12 DO1	
Project !	Vame	Maru	ti Kundal (Former Windso	or Mart)	1	Testi	ng Parameters	08/0	15	E, 1,2-DCA,	
	Date		3 /4	/2018					Oxygenates, Ethanol, & EDB			
Field Pers	onnel		HM	JK				Well Diameter	2	in		
General We	ather		Duer	cast			Sci	reened Interval	123-22.5	ft	TAG BOTTOM O	
Ambient Air Temper	ature		450			Total	Well Dept	h (nearest 0.1')	27,2	ft	WELL TO	
		Quality As	ssurance			Depth to G	roundwate	r (nearest 0.01')	17.22	ft	VERIFY WELL	
Meter	Hor	riba U-52-2		Meter	Horiba U-52-2		Length of Water Column			ft	DEPTII, WRITE	
Serial Number	VI	PTPGA3X	or	Serial Number	V3KNWUE9	1 Casing Volume (0.163)			0.81	ft	BELOW TO	
Calibration Constant		4.00 su	Calibration Constant		4.00 su	3 Casing Volumes (0.489)			2.44	gals	NEAREST 0.1'	
Calibration Constant	4.	49 mS/cm	Calibration Constant		4.49 mS/cm	Total Volume Purgea			No ourge	gals		
Calibration Constant	(0.0 NTU	Calibration Constant Last Verification (time)		0.0 NTU	Purge Technique Utilized (bailer, pun						
Last Calibration (time)	0	815				Well Yield Low 🗆		Medium 🗆	High	\square 22. Z		
Volume	(gal)	INT /				H.	O sale					
Time (mil	itary)	1										
pl	I (su)											
Spec Conductivity (m.	S/cm)	1		NS	- Fre	- ore	inct					
Water Temperature	e (°C)	/				1	110					
Turbidity (NTU)	/										
Dissolved Oxygen (r												
Well Condition Information						Additional Comments						
-overall condition acceptable?						interface proper did not detect						
-well cap acceptable?					free product. Free product							
-manhole and cover acceptable?					confirmed oil biller							
-well pad accep	table?					No Sample taken						
-area	safe?		1			~ 0.2 At of FP						
			1									

P.O. Box 25 **Environmental Services** Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information 2171.9I Well ID 02314 - MW-20 Terry Project ID 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Project Name Maruti Kundal (Former Windsor Mart) **Testing Parameters** Oxygenates, Ethanol, & EDB Date 3 / C /2018 Field Personnel HM Well Diameter in TAG General Weather Screened Interval ft 12.2-22 BOTTOM OF Total Well Depth (nearest 0.1') WELL TO ft Ambient Air Temperature 22 2 VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 7.74 ft WELL DEPTH. Length of Water Column ft Meter Horiba U-52-2 Meter Horiba U-52-2 WRITE VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) ft BELOW TO Serial Number Serial Number NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su 3 Casing Volumes (0.489) gals 0.1 Total Volume Purged 4.49 mS/cm 4.49 mS/cm gals Calibration Constant **Calibration Constant** Purge Technique Utilized (bailer) pump) 0.0 NTU Calibration Constant 0.0 NTU Calibration Constant Last Verification (time) High 🗆 Last Calibration (time) Well Yield Low Medium Volume (gal) 1.5 2 25 2850 6853 0856 Time (military) 0350 5.42 5.42 pH (su) 0.202 Spec Conductivity (mS/cm) 0,201 0.202 0.263 15.2 15.2 Water Temperature (°C) 15.2 331 Turbidity (NTU) 330 331 4-21 Dissolved Oxygen (mg/L) 4.21 Well Condition Information **Additional Comments** -overall condition acceptable? MW-20 Dup taken -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

P.O. Box 25 **KY** Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information 2171.91 Well ID 02314 - Mw 21 Terry Project ID SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB 3 5 /2018 Date Field Personnel HM Well Diameter in TAG General Weather Screened Interval 13.7-23 ft BOTTOM OF Clear Total Well Depth (nearest 0.1') WELL TO Ambient Air Temperature ft 23.3 VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 19.88 ft WELL DEPTH. Length of Water Column Meter Horiba U-52-2 Horiba U-52-2 WRITE V3KNWUE9 0.56 VPTPGA3X Serial Number 1 Casing Volume (0.163) ft Serial Number BELOW TO or NEAREST 4.00 su 3 Casing Volumes (0.489) Calibration Constant 4.00 su Calibration Constant gals 0.1 Total Volume Purged Calibration Constant 4.49 mS/cm Calibration Constant 4.49 mS/cm gals Purge Technique Utilized (bailer pump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant 23.3 Last Calibration (time) Last Verification (time) Medium High 🗆 Well Yield Low 1300 0.75 2.25 Volume (gal) mt 1.5 Time (military) 1353 pH (su) 0.078 0,077 0.078 Spec Conductivity (mS/cm) 0,07 6 19.3 Water Temperature (°C) 21.0 19.3 19.3 Turbidity (NTU) 82. 8 80.0 Dissolved Oxygen (mg/L) 2.35 2.65 Well Condition Information Additional Comments 485 -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

P.O. Box 25 **KRY** Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9I Well ID 02314 - MW-22 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB 3/5/2018 Date Field Personnel HM JK Well Diameter in TAG General Weather 800 Clear Screened Interval 12-22 ft OTTOM OF Total Well Depth (nearest 0.1') WELL TO Ambient Air Temperature ft 21.9 VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 17.98 ft WELL DEPTH. Length of Water Column Horiba U-52-2 Horiba U-52-2 ft Meter Meter WRITE 6.64 VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) Serial Number Serial Number ft BELOW TO or NEAREST 4.00 su 4.00 su 3 Casing Volumes (0.489) Calibration Constant Calibration Constant gals 0.1' Total Volume Purged Calibration Constant 4.49 mS/cm Calibration Constant 4.49 mS/cm gals Purge Technique Utilized (bailer, pump) 0.0 NTU Calibration Constant 0.0 NTU 219 Calibration Constant Last Calibration (time) Last Verification (time) Low Medium High \square Well Yield 1300 0000 15 Volume (gal) INT COO 3231.5 1325 1330 Time (military) 1315 4.27 4.29 4.28 MORDER 4 Z pH (su) 6.296 0.099 Spec Conductivity (mS/cm) 0.001 0.100 20.4 20.4 20.4 Water Temperature (°C) 492 Turbidity (NTU) 10:0 6.25 Dissolved Oxygen (mg/L) Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TER	15		vironn es first alw		Services	<u>S</u>				Summervil	P.O. Box 2: le, SC 29484 00-325-060:
	Sit	e Specific I	Informatio	n			M	Ionitoring W	Vell Informat	tion	
Terry Proje	ect ID		21	71.9I				Well ID	0231-	4- MW -1	23
SCDHEC Perm	it No.		02	2314					DEEN N	I MEDE I	2.004
Project 1	Vame	Maru	ti Kundal (Fo	ormer Windso	r Mart)		Testi	ing Parameters	10 10	oh, MTBE, 1 es, Ethanol,	
	Date		316	/2018	**				Oxygenate	is, Ethanol,	& EDB
Field Perso	onnel		Har.	JK				Well Diameter	2	in	
General We	ather		Over	rast			Sci	reened Interval	11.2-21.2	ft	TAG BOTTOM O
Ambient Air Temper	ature		400			Total	Well Dept	h (nearest 0.1')	21.0	ft	WELL TO
		Quality As	ssurance			Depth to Gi	roundwate.	r (nearest 0.01')	17.04	ft	VERIFY WELL
Meter	Hor	riba U-52-2		Meter	Horiba U-52-2		Length of	Water Column	3.96	ft	DEPTH, WRITE
Serial Number	VI	PTPGA3X	or S	Serial Number	V3KNWUE9		1 Casing)	Volume (0.163)	0.45	ft	BELOW TO
Calibration Constant		4.00 su	Calibra	tion Constant	4.00 su	3	Casing V	olumes (0.489)	1.94	gals	NEAREST 0.1'
Calibration Constant	4.4	49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	olume Purged	2.25	gals	
Calibration Constant		0.0 NTU	Calibra	tion Constant	0.0 NTU	Purge Techi	nique Utili	zed (báiler, pum	p)		0.0
Last Calibration (time)	0	315	Last Veri	fication (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	21.0
Volume	(gal)	INT	0.75	115	2.25						
Time (mil	itary)	0824	0824	0828	0830						
pH	I (su)	4.56	5.44	5.48	5.48						
Spec Conductivity (m.	S/cm)	6.269	0.103	0.101	0.161						
Water Temperature	(°C)	7.7	17.8	17.5	17.8						
Turbidity (NTU)	42.0	321	310	307						
Dissolved Oxygen (n		4.34	2.42	2.40	2.40						
	Well	Condition	Informati	on				Additiona	l Comments		
-overall condition accept	table?	4	25								
-well cap accept	table?		ť								
-manhole and cover accept	table?										
-well pad accept	table?										
-area	safe?										
-41			V								

P.O. Box 25 ERRY Environmental Services Summerville, SC 29484 1-800-325-0605 Monitoring Well Information Site Specific Information Terry Project ID 2171.9I Well ID 02314-Mu-24 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, **Testing Parameters** Maruti Kundal (Former Windsor Mart) Project Name Oxygenates, Ethanol, & EDB 3 /5 /2018 Date Hon Field Personnel 115 Well Diameter TAG Screened Interval 11-21 ft General Weather Clear BOTTOM OF Total Well Depth (nearest 0.1') 21.0 ft WELL TO Ambient Air Temperature VERIFY Depth to Groundwater (nearest 0.01') 15.90 Quality Assurance ft WELL. DEPTII. Horiba U-52-2 Length of Water Column ft Horiba U-52-2 Meter Meter WRITE VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) ft Serial Number Serial Number 0.83 BELOW TO or NEAREST 4.00 su 4.00 su 3 Casing Volumes (0.489) 2,49 gals Calibration Constant Calibration Constant 0.1 4.49 mS/cm 4.49 mS/cm Total Volume Purged Calibration Constant Calibration Constant 20 gals Purge Technique Utilized (bailer, pump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant Last Calibration (time) High 🗆 21.0 Last Verification (time) Well Yield Low Medium 1300 1.0 Volume (gal) 177 2.0 3.0 1430 1433 Time (military) A36 1439 5.27 5.06 pH (su) 5,10 5.06 0.323 0.323 Spec Conductivity (mS/cm) (0.236 0.33 19.0 19.0 190 Water Temperature (°C) 20.2 99.7 99.7 Turbidity (NTU) 220 99.5 Dissolved Oxygen (mg/L) 2. (0 5.15 5.10 Well Condition Information Additional Comments 407 -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TER	KY L	Environi IENTS FIRST ALV	nental .	Services	5				Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site Speci	fic Informatio	on			M	onitoring W	Vell Informa		
Terry Proje	ect ID	2	171.9I				Well ID	0231	4- MW-	25
SCDHEC Perm	it No.	()2314					DTEV No.	oh, MTBE, 1	2 DCA
Project i	Name N	Iaruti Kundal (F	Former Windso	r Mart)		Testin	ng Parameters	00 50	es, Ethanol, 6	
	Date	3/5	-/2018					Oxygenate	,s, Linanoi, e	X LDD
Field Pers	onnel	HM	JK				Well Diameter	2	in	TAG
General We	ather	Clec	1			Scr	eened Interval	11-2.	ft	BOTTOM OF
Ambient Air Temper	ature	553			Total	Well Deptl	(nearest 0.1')	21.0	ft	WELL TO VERIFY
	Qualit	Assurance			Depth to Gi	roundwater	(nearest 0.01')	16.26	ft	WELL
Meter	Horiba U-52	2	Meter	Horiba U-52-2		Length of	Water Column	4.74	ft	DEPTII, WRITE
Serial Number	VPTPGA32	or	Serial Number	V3KNWUE9		1 Casing V	olume (0.163)	0.77	ft	BELOW TO
Calibration Constant	4.00 su	Calibi	ration Constant	4.00 su	Ĵ	Casing Vo	olumes (0.489)	2.37	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibi	ration Constant	4.49 mS/cm			olume Purged	3.0	gals	
Calibration Constant	0.0 NTU		ration Constant	0.0 NTU	Purge Techi	nique Utiliz	ed (bailer, pum			21.0
Last Calibration (time)	1300	Last Vei	rification (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	21.0
Volume	(gal) INT	1.0	20	3.0						
Time (mil	itary) 1455	458	1501	1504						
pł	1 (su) 5.04	4.31	4.30	4.30						
Spec Conductivity (m.	S/cm) 0.091		0.067	6.067						
Water Temperature	(°C) 70.4	19.7	19.7	19.7						
Turbidity (244	247	243						
Dissolved Oxygen (r			3.12	3.11						
		ion Informat	tion				Additiona	l Comments		
-overall condition accep	table?	tes								
-well cap accep	table?	1			-					
-manhole and cover accep	table?									
-well pad accep	table?									
-area	safe?									
-other com	ments									

P.O. Box 25 RRY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information 02314 - Mw-25 Terry Project ID 2171.91 Well ID 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, **Testing Parameters** Maruti Kundal (Former Windsor Mart) Project Name Oxygenates, Ethanol, & EDB 3 /5 /2018 Date HM IK Well Diameter Field Personnel in TAG General Weather 10.4-20,4 Screened Interval ft воттом ог Total Well Depth (nearest 0.1') WELL TO Ambient Air Temperature ft VERIFY Depth to Groundwater (nearest 0.01') Quality Assurance ft WELL DEPTH. Horiba U-52-2 Length of Water Column ft Horiba U-52-2 Meter Meter WRITE VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) ft Serial Number Serial Number BELOW TO or NEAREST 4.00 su 3 Casing Volumes (0.489) gals Calibration Constant 4.00 su Calibration Constant 0.1 4.49 mS/cm Total Volume Purged Calibration Constant 4.49 mS/cm Calibration Constant gals Purge Technique Utilized (bailer) pump) 0.0 NTU Calibration Constant 0.0 NTU Calibration Constant 19.9 Last Calibration (time) Last Verification (time) Well Yield Low Medium High 🗆 1300 0.73 2.25 Volume (gal) INT 1.5 Time (military) 1510 1516 1519 4.12 4.40 4.12 pH (su) 4 15 0.054 Spec Conductivity (mS/cm) (.OC. 0.055 0.059 20.5 Water Temperature (°C) 20.5 20.5 20.7 420 419 420 Turbidity (NTU) 402 2,90 2.87 Dissolved Oxygen (mg/L) 3.43 Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TER	RYEN	Vironn TS FIRST ALW	nental !	Services	5				S	Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Informatio	n			М	onitoring V	Vell Infor	matio		
Terry Proje	ect ID	21	71.9 I				Well ID	(02314 -	Mwz	7
SCDHEC Permi	it No.	02	2314					DEEN		MEDE 1	0 DG4
Project 1	Vame Maru	ıti Kundal (Fo	ormer Windso	r Mart)		Testi	ng Parameters	1	6 9	MTBE, 1 Ethanol, a	
	Date	315	/2018					Oxyg	enates,	Ethanoi, e	X EDB
Field Perso	onnel	Hm. si	L				Well Diameter	2		in	m. c
General We	ather	Clear				Ser	eened Interval	10-20		ft	TAG BOTTOM O
Ambient Air Temper	ature	50	5		Total	Well Depti	h (nearest 0.1')	20.0	5	fì	WELL TO
	Quality A	ssurance			Depth to Gi	roundwater	" (nearest 0.01')	14.9	1	ft	VERIFY WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2	8	Length of	Water Column	5.0	3	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or S	Serial Number	V3KNWUE9		1 Casing V	olume (0.163)	0.82		ft	BELOW TO
Calibration Constant	4.00 su	Calibra	tion Constant	4.00 su	3	Casing Va	olumes (0.489)	2.46		gals	NEAREST 0,1'
Calibration Constant	4.49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	olume Purged	-		gals	0.1
Calibration Constant	0.0 NTU	Calibra	tion Constant	0.0 NTU	Purge Techi	nique Utiliz	ed Guiler, pun	ip)			
Last Calibration (time)	1300	Last Verij	fication (time)		Well	Yield	Low	Medium		High 🗆	20.0
Volume	(gal) INT	1.0	2.0	3.0							
Time (mil.	itary) 530	1533	1536	1539							
pH	1 (su) 4.36	4.34	4.34	4.24							
Spec Conductivity (m.	S/cm) 6.033	0.047	0.047	6.047							
Water Temperature	(0) 19.6	19.6	19.0	19.6							
Turbidity (!	VTU) 440	40	401	0 407							
Dissolved Oxygen (n		2.45	2.63	2.43							
	Well Condition	i Informati	on				Addition	ıl Comme	ents		
-overall condition accept	table? 9	es									
-well cap accept	table?	4									
-manhole and cover accept	table?										
-well pad accept	table?										
-area	safe?										
-other com	ments	0									

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TER	RYEN	vironmental is first always	Services	5				Summervill 1-80	P.O. Box 25 e, SC 29484 00-325-0605
	Site Specific	Information			Mo	nitoring W	'ell Informat		
Terry Proje	ect ID	2171.91				Well ID	02314	1-pw-1	
SCDHEC Permi	it No.	02314					BTEX, Nap	h MTRF 1	2-DCA
Project 1	Vame Mari	iti Kundal (Former Windso	or Mart)		Testing	Parameters	0 5	s, Ethanol,	
	Date	3 / 5 /2018					Only Bennite	o, Dimarren, e	
Field Perso	onnel	Hun sic			W	ell Diameter	2	in	TAG
General We	ather	Clear 50°					49.6.54.6	ft	воттом оғ
Ambient Air Temper	ature	50'		Total We	ell Depth	(nearest 0.1')	54.4	ft	WELL TO VERIFY
	Quality A	ssurance		Depth to Grou	ndwater (nearest 0.01')	17.33	ft	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2		0 0	ater Column	37.07	ft	DEPTII, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	10	Casing Voi	ume (0.163)	6.04	ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	4.00 su	3 Ca	asing Volt	imes (0.489)	18,13	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm		Total Vol	ume Purged		gals	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	Purge Techniqu	Carlotte Committee Committ		W.C.		ea 11
Last Calibration (time)	1300	Last Verification (time)	1700	Well Yiel	ld	Low 🗆	Medium 🗆	High \square	54.4
Volume	(gal) INT	GOODS 3.25 COLUST 6.5	MODERA	T					
Time (mil	litary) (800	1805 1810		X					
pI	1 (su) 5.66	6.29	, V						
Spec Conductivity (m.	S/cm) 0.168	0.161 0.159	2	Purg	26	dry	Samo	take	n
Water Temperature	e (°C) 18,4	20.2 20.3	200	0			•		
Turbidity (96.6 71.3	1						
Dissolved Oxygen (r		4.61 3.42	1			4 1 11 11			
	Well Condition	n Information				Additiona	l Comments		
-overall condition accep	table?						_		
-well cap accep				purey	r E	2-1		ing in	hine
-manhole and cover accep	table? Vanly	full of clay		, σ	Sam	ç le	talien	J	
AGES DEF	table?								
-area	safe?								
-other com	iments								

TER	R	YEn	vironn is first alw	nental S	Services	5					P.O. Box 25 le, SC 29484 00-325-0605
	Site	Specific .	Informatio	n			M	onitoring W	'ell Informat	tion	
Terry Projec	ct ID		2	171.91				Well ID	0231	4- Du ~	2_
SCDHEC Permit	t No.		C	2314					DTEV N	LAMEDE	2.004
Project N	Vame	Maru	iti Kundal (F	ormer Windso	r Mart)		Testin	ng Parameters	BTEX, Nap		
	Date		3 8	/2018					Oxygenate	es, Ethanol,	& EDB
Field Perso	nnel		Hm	JK				Well Diameter	2	in	II maran
General Wed	ather		Cle				Scr	eened Interval	44,6-196	ft	TAG BOTTOM OF
Ambient Air Tempera	ature		57	5*		Total	Well Depti	(nearest 0.1')	49.6	ft	WELLTO
	- 1	Quality A.	ssurance			Depth to Gr	oundwater	(nearest 0.01')	19.82	ft	VERIFY WELL
Meter	Hori	ba U-52-2		Meter	Horiba U-52-2		Length of	Water Column	29.78	ft	DEPTH, WRITE
Serial Number	VP	TPGA3X	or	Serial Number	V3KNWUE9		1 Casing V	olume (0.163)	4.85	ft	BELOW TO
Calibration Constant	4	1.00 su	Calibr	ation Constant	4.00 su	3	Casing Vo	lumes (0.489)	14.50	gals	NEAREST 0.1'
Calibration Constant	4.4	9 mS/cm	Calibr	ation Constant	4.49 mS/cm		Total V	olume Purged	15.0	gals	0.1
Calibration Constant	0.	.0 NTU	Calibr	ation Constant	0.0 NTU	Purge Techi	tique Utiliz	ed (bailer, pum	9)		10.
Last Calibration (time)	13	00	Last Ver	ification (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	49.6
Volume	(gal)	INT	2.5	5							
Time (mili	itary)	1340	1343	1346							
рН	(su)	5.83	6.24	3.95				Purged	DM		
Spec Conductivity (mS	S/cm)	0.126	0.129	0.133		/		Sound	ole tak	en	
Water Temperature	(°C)	20.1	20.8	20.7					rii totaa		
Turbidity (N		126	181	4.1							
Dissolved Oxygen (m		4.23	3.30	04.94							
	Well	Condition	ı Informat	ion				Additiona	l Comments		
-overall condition accept	able?		40	5							
-well cap accept	able?						Pura	et du	W (1)	cally	
-manhole and cover accept	able?					V	rolun	<u> </u>	Sample	take	h
-well pad accept	able?						a she	THE COL	1	10 B/C 10 C	
-area	safe?										
-other com	ments										
**********************				> www. <i>t</i>	errvenvironn	nental.com	<				

TER	RYEN	Vironn ts first alw	nental !	Services	5				Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Informatio	n			M	onitoring W	ell Informat		00 020 0000
Terry Proje	ect ID	21	171.91				Well ID	02314	4- Du-	3
SCDHEC Perm	it No.	0	2314						L LUTTER I	4 B C (
Project /	Vame Mari	ıti Kundal (F	ormer Windso	r Mart)		Testin	g Parameters	BTEX, Nap		
	Date	315	/2018		*			Oxygenate	s, Ethanol,	X EDB
Field Perso	onnel	HAN .	JK				Well Diameter	2	in	mile
General We	ather	Clea	ر			Scre	eened Interval	44.6-49.6	ft	TAG BOTTOM OI
Ambient Air Temper	ature	55	5		Total	Well Depth	(nearest 0.1')	49.6	ft	WELL TO
	Quality A	ssurance			Depth to Gr	oundwater	(nearest 0.01')	16.50	ft	VERIFY WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2	9	Length of V	Vater Column	33.(0	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or ,	Serial Number	V3KNWUE9		l Casing V	olume (0.163)	5.40	ft	BELOW TO
Calibration Constant	4.00 su	Calibr	ation Constant	4.00 su	3	Casing Vo	lumes (0.489)	14.19	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibr	ation Constant	4.49 mS/cm		Total V	olume Purged	16.5	gals	0.1
Calibration Constant	0.0 NTU	Calibra	ation Constant	0.0 NTU	Purge Techn	ique Utiliza	ed (bailer, pum			100
Last Calibration (time)	1300	Last Veri	ification (time)		Well 1	Yield	Low 🗆	Medium 🗆	High 🗆	47.6
Volume	(gal) (NT	2.75	5.5							
Time (mil	itary) 1415	1420	1425				and the same			
pH.	1 (su) 5.88	6.14	to 12			The state of the s	pun	ned day		
Spec Conductivity (m.)	S/cm) 0.170	0.184	0.217		and the second		San	ale tak	in	
Water Temperature	(°C) 20.1	20.9	19.0		and the same of th			,		
	NTU) 45.3	98.4	117	and the same of th						
Dissolved Oxygen (n		3.15	4.90							
	Well Condition	ı Informat	ion				Additiona	l Comments		
-overall condition accept	table?	23								
-well cap accept	table?				(surge &	4m	at 1	casin	1
-manhole and cover accept	table?				3	voin	me, al	lowed t	o rech	lige
-well pad accept	table?						Samphe	taken		6
-area	safe?									
-other com	ments									

TER	17	YEn	vironn	iental !	Services	3		¥I		Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site	e Specific I	nformation	n	Å		М	onitoring W	'ell Informa		
Terry Proje	ct ID		21	71.91				Well ID	0231	4- RW-	
SCDHEC Permi	t No.		02	2314					DTEV No.	ph, MTBE, 1	2 DCA
Project /	Vame	Maru	ti Kundal (Fo	rmer Windso	r Mart)		Testi	ng Parameters		es, Ethanol,	
	Date		316	/2018					Oxygenat	es, Ethanor,	
Field Perse	onnel		Am J	K				Well Diameter	4	in	TAG
General We	ather		Overce 450	ist		Screened Interval 16 - 30 ft					
Ambient Air Temper	ature		450			Total Well Depth (nearest 0.1') ft					
		Quality As	surance			Depth to Groundwater (nearest 0.01') ft					
Meter	Hor	iba U-52-2		Meter	Horiba U-52-2	L	ength of	Water Column		ft	DEPTH, WRITE
Serial Number	VF	PTPGA3X	or S	erial Number	V3KNWUE9	VUE9 1 Casing Volume (0.163) / ft					
Calibration Constant		4.00 su	Calibra	tion Constant	4.00 su	su 3 Casing Volumes (0.489) / gals					
Calibration Constant	4.4	49 mS/cm	Calibra	tion Constant	4.49 mS/cm			olume Purged	1	gals	
Calibration Constant).0 NTU		tion Constant	0.0 NTU	U	•	zed (bailer, pum	100		
Last Calibration (time)	C	1815	Last Verif	fication (time)		Well Yi	ield	Low	Medium 🗆	High 🗆	
Volume	(gal)		/								
Time (mil	itary)	/									
рН	l (su)	/					,				
Spec Conductivity (m.	S/cm)	/		NS	- FAZ	produce	it				
Water Temperature	(°C)	1									
Turbidity (-										
Dissolved Oxygen (r		/						11111	16		
			Informati	on		Additional Comments					
-overall condition accep	table?	OUES.				N == 1					
-well cap accep	table?					19.5					
-manhole and cover accep						19.8				927 0 10	
-well pad accep	table?					Fde	Prod			Sample	taken
-area	safe?								duct the		
-other com	ments					care brown wor, transparent					

TER	RYE	NTS FIRST ALV	VAYS —	Services	5				1-8	P.O. Box 25 lle, SC 29484 300-325-0605
	Site Specifi	c Informatio	on			M	onitoring W	'ell Informa	tion	
Terry Proje	ect ID	2	171.91				Well ID	0231	4-RW-7	L
SCDHEC Permi	it No.	()2314					DTEV N	LATER	1.2 DC4
Project !	Vame Ma	ruti Kundal (F	ormer Windso	or Mart)		Testin	ng Parameters	BTEX, Nap	on, M1BE, es, Ethanol,	B 58
	Date	314	o/2018					Oxygenau	es, Ethanol,	& EDB
Field Perso	onnel	Hon)K				Well Diameter	4	in	m. c
General We	ather		reast			Scr	eened Interval	10-30	ft	TAG BOTTOM OF
Ambient Air Temper	ature	4	5		Total	Well Deptl	t (nearest 0.1')	1	ft	WELL TO
	Quality	Assurance			Depth to G	roundwater	(nearest 0.01')	1	ft	VERIFY WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2		Length of	Water Column	1	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9		1 Casing V	olume (0.163)	1	fì	BELOW TO
Calibration Constant	4.00 su	Calibr	ation Constant	4.00 su		3 Casing Vo	olumes (0.489)	1	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibr	ation Constant	4.49 mS/cm		Total V	olume Purged	1	gals	0.1
Calibration Constant	0.0 NTU	Calibr	ation Constant	0.0 NTU	Purge Techi	nique Utiliz	ed (bailer, pumj	p)		
Last Calibration (time)	0815	Last Ver	ification (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	
Volume	(gal)	/								
Time (mili	itary)									
ph	(su)									
Spec Conductivity (m.	8/cm) /		NS	- Free	b 63 9	uct				
Water Temperature	(°C) /									
Turbidity (?	VTU) /		11							
Dissolved Oxygen (n	0 /									
	Well Condition		ion				Additiona	l Comments		10
-overall condition accept	able?	75								
-well cap accept	able?					18:63	PTP	1.30	FP th	ukness
-manhole and cover accept	able?					19.93	PTW		brown .	
-well pad accept	able?				No sample taken free product				uct	
-area	safe?				6	tected	8		I	
-other com	ments									

P.O. Box 25 RRY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.91 Well ID 02314 -SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Project Name Maruti Kundal (Former Windsor Mart) **Testing Parameters** Oxygenates, Ethanol, & EDB 3 / 6/2018 Date HM Field Personnel Well Diameter in TAG General Weather Screened Interval 30 ft BOTTOM OF Total Well Depth (nearest 0.1') WELL TO Ambient Air Temperature 45 ft 30,0 VERIFY Depth to Groundwater (nearest 0.01') Quality Assurance 8.94 ft WELL DEPTH. Length of Water Column 11.04 ft Meter Horiba U-52-2 Horiba U-52-2 WRITE VPTPGA3X Serial Number V3KNWUE9 1 Casing Volume (0.163) ft Serial Number BELOW TO NEAREST 3 Casing Volumes (0.489) Calibration Constant 4.00 su Calibration Constant 4.00 su gals 0.1 Total Volume Purged gals Calibration Constant 4.49 mS/cm Calibration Constant 4.49 mS/cm Purge Technique Utilized (bailer, pump) 0.0 NTU Calibration Constant 0.0 NTU Calibration Constant 30,0 Last Verification (time) High \square Last Calibration (time) Well Yield Low Medium 0815 3.75 11.25 7.5. 22.5 WALLER Volume (gal) INT 18.75 001004 Time (military) 095 0953 1001 1007 1010 5.91 5.75 pH (su) 6.00 5.60 6.15 Spec Conductivity (mS/cm) 0.059 0.046 0.045 0.057 0,049 0:047 15,9 18. 5 19,5 Water Temperature (°C) 18.8 19.5 437 133 45-1 438 437 Turbidity (NTU) 487 4.03 3,54 Dissolved Oxygen (mg/L) 4.11 50 Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? taluch -well pad acceptable? 1017 -area safe? -other comments

TER	K	Y En	VIPONM IS FIRST ALWA	ental .	Services	5							P.O. Box 25 ille, SC 29484 800-325-0605
	Site	Specific I	Information	1			M	lonitori	ng W	'ell Infor	mati	on	
Terry Proje	ect ID		217	71.91					ell ID			- Sw-	
SCDHEC Permi	it No.		02	314						DTEV	N .	MEDE	1.2.004
Project /	Name	Maru	ti Kundal (Fo	rmer Windso	r Mart)		Testi	ing Paran	neters		9.50	ı, MTBE, s, Ethanol,	1,2-DCA,
	Date		315	/2018				W.V		Oxyg	chates	, Ethanoi,	& EDB
Field Perso	onnel		HM	JK				Well Dia	meter		/	in	TAG
General We	ather		Gear				Sei	reened In	terval			ft	воттом он
Ambient Air Temper	rature		55			Total	Well Dept	h (neares	t 0.1')	1		ft	WELL TO VERIFY
		Quality As	ssurance			Depth to Gi	roundwate	r (nearest	0.01')	1		ft	WELL
Meter	Hori	iba U-52-2		Meter	Horiba U-52-2		Length of	Water Co	lumn	1		ft	DEPTH, WRITE
Serial Number	VP	TPGA3X	or S	erial Number	V3KNWUE9		I Casing V	Volume (b).163)	1		ft	BELOW TO
Calibration Constant	۷	4.00 su	Calibra	tion Constant	4.00 su	Ĵ	Casing V	olumes (l	.489)			gals	NEAREST 0.1'
Calibration Constant	4.4	9 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	olume P	urged			gals	
Calibration Constant	0.	.0 NTU		tion Constant	0.0 NTU	Purge Techi		and the second					
Last Calibration (time)	12	300	Last Verif	ication (time)		Well	Yield	Low		Medium		High 🗆	
Volume	(gal)	INT											
Time (mil	itary)	1545					·				_		
pH.	I (su)	5.40											
Spec Conductivity (m.	S/cm)	0.051											
Water Temperature	e (°C)	14.9											
Turbidity (1	NTU)	109											
Dissolved Oxygen (r		4.48	1										
	Well	Condition	Informatio	on				Addi	tiona	l Commo	ents		
-overall condition accep	table?		/										
-well cap accep	table?												
-manhole and cover acceptable?													
-well pad acceptable?													
-area	safe? _												
-other com	ments	1	K1										

TER	4R		viro			Services	5			1		P.O. Box 25 lle, SC 29484 300-325-0605
	Site	Specific .	Inforn	nation	7			N	Ionitoring W	Vell Informa	ıtion	
Terry Proje	ect ID		•	211	71.91				Well ID		14 - Sw-	2
SCDHEC Permi	it No.			02	314					7.5		
Project !	Vame	Maru	ıti Kunc	lal (Fo	rmer Windso	r Mart)		Test	ing Parameters	Service Control of th	iph, MTBE, tes, Ethanol,	
	Date		3	15	/2018					Oxygena	tes, Ethanoi,	& EDB
Field Perso	onnel		Hm	3	ic				Well Diameter		/ in	
General We	ather			lear				Sc	reened Interval	1	ft	TAG BOTTOM OF
Ambient Air Temper	ature			5			Total	Well Dep	th (nearest 0.1')	1	ft	WELL TO VERIFY
		Quality A.	ssuran	ice			Depth to G	roundwate	r (nearest 0.01')		ft	WELL
Meter	Hori	ba U-52-2			Meter	Horiba U-52-2		Length of	Water Column	/	fì	DEPTH, WRITE
Serial Number	VP	TPGA3X	or	S	erial Number	V3KNWUE9		1 Casing	Volume (0.163)		ft	BELOW TO
Calibration Constant	4	1.00 su	(Calibra	tion Constant	4.00 su	3	Casing V	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	4.4	9 mS/cm	(Calibra	tion Constant	4.49 mS/cm		Total	Volume Purged		gals]
Calibration Constant	0.	.0 NTU	(Calibra	tion Constant	0.0 NTU	Purge Techi	ique Utili	ized (bailer, pum	p)		
Last Calibration (time)	(3	20	Las	st Verif	ication (time)	2	Well	Yield	Low 🗆	Medium 🗆	High 🗆	
Volume	(gal)	121		1	-							
Time (mil	itary)	1643			July Harry					Ш		
рF	I (su)	5.92			er .					П		
Spec Conductivity (m.	S/cm)	0,109		/								
Water Temperature	e (°C)	15.2	/									
Turbidity (NTU)	141	/									
Dissolved Oxygen (n	ng/L)	5.41	1									
	Well	Condition	ı Infor	rmati	on				Additiona	d Comment	S	
-overall condition accep-	table?			Jake Comment								
-well cap accep	table?		1	1								
-manhole and cover accep-	table?		1									
-well pad accep	table?	/										
-area	safe?											
-other com	ments	/										

TER	15	Y En	Vironn es first alwa	iental !	Services	5			Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Sit	e Specific .	Information	n			Monitoring W			
Terry Proje	ct ID		21	71.9I			Well ID	02314	1-WSW 1	
SCDHEC Permi	it No.		02	2314				DTEV No.	L MTDE 1	2.004
Project N	Vame	Maru	ti Kundal (Fo	ormer Windso	r Mart)		Testing Parameters	BTEX, Nap	s, Ethanol,	
	Date		36	/2018				Oxygenate	, Ethanol,	K LDB
Field Perso	onnel		Hm.	JK			Well Diameter		in	TAG
General We	ather		au-	east			Screened Interval		ft	BOTTOM OF
Ambient Air Temper	ature		45	3		Total Well	Depth (nearest 0.1')	1	ft	WELL TO VERIFY
		Quality A.	ssurance			Depth to Ground	lwater (nearest 0.01')		ft	WELL
Meter	Ho	riba U-52-2		Meter	Horiba U-52-2	Leng	th of Water Column	1	ft	DEPTII, WRITE
Serial Number	VI	PTPGA3X	or S	Serial Number	V3KNWUE9	1 Ca.	sing Volume (0.163)		ft	BELOW TO
Calibration Constant		4.00 su	Calibra	tion Constant	4.00 su	3 Cas	ing Volumes (0.489)	1	gals	NEAREST 0.1'
Calibration Constant	4.	49 mS/cm	Calibra	tion Constant	4.49 mS/cm	T	otal Volume Purged		gals	0.1
Calibration Constant	(0.0 NTU	Calibra	tion Constant	0.0 NTU	Purge Technique	Utilized (bailer, pum	p)		
Last Calibration (time)	j.	202	Last Verij	fication (time)		Well Yield	Low 🗆	Medium \square	High 🗆	
Volume	(gal)	INT		/						
Time (mili	itary)	1220	1							
pH	l (su)	6.16								
Spec Conductivity (m.S	S/cm)	0.115	1							
Water Temperature	(°C)	15.6								
Turbidity (!	VTU)	34.3								
Dissolved Oxygen (n	ng/L)	4.84								Į.
	Well	Condition	Informati	on		3	Additiona	l Comments		
-overall condition accept	table?									
-well cap accept	table?					wsw1.	Due taken	0 127	17	
-manhole and cover accept	table?									
-well pad accept	table?									
-other com	ments									



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 3/5/18	Inspector: HM
Solution Manufacturer: Aurical	Lot Number: 1712d79	Expiration Date: /2/30/19
Solution Value	Instrument Reading	Асситису
pH: 4.00	3.99	± .01
Conductivity: 4.49 mS/cm	4.48 mS/cm	±,01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 🔌 NTU
Standard Reading	Instrument Readi	ng Accuracy
NIST-Traceable Thermometer: 16.7 ℃	16.8 °C	± 0.1 °C
Ω	APP Acceptance Criteria	
Field Parameter	Acc	eurac <u>y</u>
Temperature	±1°C agair	nst an NIST-traceable thermometer
Specific Conductance	10% of eac	h standard used
pH	±0.2 pH un	uits of stated buffer value
Turbidity	10% of eac	rh standard used
Ins	pector's Maintenance Note	es

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: <u>VAKALDIKI</u>	Date/Time: 3/5/18	Inspector: HM
	1700	

	QA	APP Acceptance Criteria	
Thermometer:	18·0 °C	18.2 °C	± 0.2 °C
NST-Traceable	Standard Reading	Instrument Readin	g Accuracy
Turbidity	0.0 NTU	0.1 NTU	± 0.7 NTU
	vity: 4.49 mS cm	4.46 mS cm	± ,03 mS/cr
pH 4.00		3.96	± ,04
Solution	Value	Instrument Reading	Accuracy
		Lot Number: 1712d79	Expiration Date: 12/30/19

VAPE	Acceptance Criteria
Field Parameter	Accuracy
Temperature	±1°C against an NIST-traceable thermometer
Specific Conductance	10% of each standard used
pН	± 0.2 pH units of stated buffer value
Turbidity	10% of each standard used

Inspector's Maintenance Note	S



HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: YWKAUMKS Da	i 830	Inspector: HM
Solution Manufacturer: Eastern Sol.	Lat Number 1717 d 76	17/20/0
		Expiration Date: 12/30/19
Solution Value	Instrument Reading	<u>Accuracy</u>
pH: 4.00	3.95	± 0.05
Conductivity: 4.49 mS/cm	4.46 mS/cm	± 0.03 mS/cm
Turbidity: 0.0 NTU	NTU	± O. VNTU
Standard Reading	Instrument Reading	Accuracy Accuracy
NIST-Traceable Thermometer: 18.0°C	13.200	± 0.2°C
QAP	P Acceptance Criteria	
Field Parameter	Accu	<u>racy</u>
Temperature	$\pm I$ °C against	t an NIST-traceable thermometer
Specific Conductance	10% of each	standard used
pH	±0.2 pH unit	s of stated buffer value
Turbidity	10% of each	standard used
Inspec	tor's Maintenance Notes	



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 3/6/18 0815	Inspector: HM
Solution Manufacturer: Aurical	Lot Number: 1712d79	Expiration Date: (2/30/19
Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.00	± &
Conductivity: 4.49 mS/cm	4.50 mS/cm	± ,O mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 📐 NTU
Standard Reading	Instrument Readi	ng Accuracy
NIST-Traceable Thermometer: 11.6°C	11.6 °C	± 🗞 °C
Q	APP Acceptance Criteria	07 1
Field Parameter	Ace	<u>curacy</u>
Temperature	±1°C again	nst an NIST-traceable thermometer
Specific Conductance	10% of eac	ch standard used
рН	±0.2 pH ur	nits of stated buffer value
Turbidity	10% of eac	ch standard used
Insp	ector's Maintenance Note	es
S		

HORIBA L'-52-2 VERIFICATION CHECK DATA SHEET

	Committee of the commit	
Serial Number: <u>NWKALNIKI</u>	Date/Time: 3/6/18 1200	Inspector: HM
Fasters	tons	
Solution Manufacturer: _Aurital	Lot Number:	Expiration Date;
Solution Value	Instrument Reading	Accuracy
pH 4.00	4.00	± 🔕
Conductivity: 4.49 mS cm	4.50 mS cm	± Ø1 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± & NTU
Standard Reading	Instrument Readin	g Accuracy
NIST-Traceable Thermometer: 12.6°C	12.6°C	± 🔌 °C
2	APP Acceptance Criteria	
Field Parameter	Acc	uracy
Temperature	±1°C again.	st an NIST-traceable thermometer
Specific Conductance		n standard used
pH	±0 2 pH uni	ts of stated buffer value
Turbidity	10% of each	a standard used
Ins	pector's Maintenance Notes	



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time; 3/6/18	Inspector: HM
Solution Manufacturer: Aurical	Lot Number: 1712d79	Expiration Date: 12/30/19
Solution Value	Instrument Reading	Асситасу
pH: 4.00	4.00	± 🖔
Conductivity: 4.49 mS/cm	4.50 mS/cm	± ,01 mS/cm
Turbidity: 0.0 NTU	_0.0ntu	± Q NTU
Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer: 12.6°C	12.7 °C	± 0.1 °€
2	OAPP Acceptance Criteria	ON THE STATE OF TH
Field Parameter	Accu	racy
Temperature	$\pm I$ °C agains	t an NIST-traceable thermometer
Specific Conductance	10% of each	standard used
pH	± 0.2 pH unit	's of stated buffer value
Turbidity	10% of each	standard used
Ins	pector's Maintenance Notes	***************************************

Report of Analysis

Terry Environmental Services, Inc.

222 Varnfield Drive Suite F Summerville, SC 29483 Attention: Kelly Cone

Project Name: Maruti Kundal (Fr. Windsor Mart)

Project Number: 2171.9l Lot Number: **TC06056**

Date Completed:03/09/2018

03/14/2018 3:07 PM Approved and released by:

Project Manager: Kelly M. Nance

KellyM Name





The electronic signature above is the equivalent of a handwritten signature.

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: TC06056

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 Summary Terry Environmental Services, Inc.

Lot Number: TC06056

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314-MW-3	Aqueous	03/06/2018 0947	03/06/2018
002	02314-MW-8	Aqueous	03/06/2018 1123	03/06/2018
003	02314-MW-9	Aqueous	03/05/2018 1639	03/06/2018
004	02314-MW-10	Aqueous	03/05/2018 1630	03/06/2018
005	02314-MW-11	Aqueous	03/05/2018 1609	03/06/2018
006	02314-MW-12	Aqueous	03/05/2018 1620	03/06/2018
007	02314-MW-13	Aqueous	03/06/2018 0911	03/06/2018
800	02314-MW-15	Aqueous	03/06/2018 1105	03/06/2018
009	02314-MW-16	Aqueous	03/05/2018 1751	03/06/2018
010	02314-MW-18	Aqueous	03/05/2018 1729	03/06/2018
011	02314-MW-20	Aqueous	03/06/2018 0859	03/06/2018
012	02314-MW-20 Dup	Aqueous	03/06/2018 0901	03/06/2018
013	02314-MW-21	Aqueous	03/05/2018 1359	03/06/2018
014	02314-MW-22	Aqueous	03/05/2018 1330	03/06/2018
015	02314-MW-23	Aqueous	03/06/2018 0830	03/06/2018
016	02314-MW-24	Aqueous	03/05/2018 1439	03/06/2018
017	02314-MW-25	Aqueous	03/05/2018 1504	03/06/2018
018	02314-MW-26	Aqueous	03/05/2018 1519	03/06/2018
019	02314-MW-27	Aqueous	03/05/2018 1539	03/06/2018
020	02314-DW-1	Aqueous	03/05/2018 1810	03/06/2018
021	02314-DW-2	Aqueous	03/05/2018 1346	03/06/2018
022	02314-DW-3	Aqueous	03/05/2018 1425	03/06/2018
023	02314-RW-3	Aqueous	03/06/2018 1010	03/06/2018
024	02314-RW-3 Dup	Aqueous	03/06/2018 1012	03/06/2018
025	02314-SW-1	Aqueous	03/05/2018 1545	03/06/2018
026	02314-SW-2	Aqueous	03/05/2018 1643	03/06/2018
027	02314-FB-1	Aqueous	03/05/2018 1245	03/06/2018
028	02314-FB-2	Aqueous	03/06/2018 0800	03/06/2018
029	02314-TB-1	Aqueous	03/05/2018	03/06/2018

(29 samples)

Detection Summary Terry Environmental Services, Inc.

Lot Number: TC06056

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	02314-MW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	380		ug/L	9
001	02314-MW-3	Aqueous	Benzene	8260B	230		ug/L	9
001	02314-MW-3	Aqueous	1,2-Dichloroethane	8260B	5.6		ug/L	9
001	02314-MW-3	Aqueous	Ethylbenzene	8260B	270		ug/L	9
001	02314-MW-3	Aqueous	Naphthalene	8260B	86		ug/L	9
001	02314-MW-3	Aqueous	Toluene	8260B	310		ug/L	9
001	02314-MW-3	Aqueous	Xylenes (total)	8260B	1300		ug/L	9
002	02314-MW-8	Aqueous	tert-Amyl alcohol (TAA)	8260B	11000		ug/L	10
002	02314-MW-8	Aqueous	Benzene	8260B	1300		ug/L	10
002	02314-MW-8	Aqueous	Diisopropyl ether (IPE)	8260B	18	J	ug/L	10
002	02314-MW-8	Aqueous	Ethylbenzene	8260B	350		ug/L	10
002	02314-MW-8	Aqueous	Naphthalene	8260B	100		ug/L	10
002	02314-MW-8	Aqueous	Toluene	8260B	2800		ug/L	10
002	02314-MW-8	Aqueous	Xylenes (total)	8260B	4300		ug/L	10
006	02314-MW-12	Aqueous	tert-Amyl alcohol (TAA)	8260B	3200		ug/L	14
006	02314-MW-12	Aqueous	Benzene	8260B	110		ug/L	14
006	02314-MW-12	Aqueous	Diisopropyl ether (IPE)	8260B	0.79	J	ug/L	14
006	02314-MW-12	Aqueous	Ethylbenzene	8260B	47		ug/L	14
006	02314-MW-12	Aqueous	Naphthalene	8260B	21		ug/L	14
006	02314-MW-12	Aqueous	tert-butyl alcohol (TBA)	8260B	44		ug/L	14
006	02314-MW-12	Aqueous	Toluene	8260B	200		ug/L	14
006	02314-MW-12	Aqueous	Xylenes (total)	8260B	240		ug/L	14
007	02314-MW-13	Aqueous	tert-Amyl alcohol (TAA)	8260B	5100		ug/L	15
007	02314-MW-13	Aqueous	Benzene	8260B	3400		ug/L	15
007	02314-MW-13	Aqueous	Diisopropyl ether (IPE)	8260B	66	J	ug/L	15
007	02314-MW-13	Aqueous	Ethylbenzene	8260B	1800		ug/L	15
007	02314-MW-13	Aqueous	Naphthalene	8260B	440		ug/L	15
007	02314-MW-13	Aqueous	Toluene	8260B	14000		ug/L	15
007	02314-MW-13	Aqueous	Xylenes (total)	8260B	11000		ug/L	15
800	02314-MW-15	Aqueous	tert-Amyl alcohol (TAA)	8260B	10000		ug/L	16
800	02314-MW-15	Aqueous	Benzene	8260B	5300		ug/L	16
800	02314-MW-15	Aqueous	Ethylbenzene	8260B	2000		ug/L	16
800	02314-MW-15	Aqueous	Naphthalene	8260B	340		ug/L	16
800	02314-MW-15	Aqueous	Toluene	8260B	17000		ug/L	16
800	02314-MW-15	Aqueous	Xylenes (total)	8260B	8600		ug/L	16
011	02314-MW-20	Aqueous	tert-Amyl alcohol (TAA)	8260B	4600		ug/L	19
011	02314-MW-20	Aqueous	Benzene	8260B	2300		ug/L	19
011	02314-MW-20	Aqueous	Diisopropyl ether (IPE)	8260B	43	J	ug/L	19
011	02314-MW-20	Aqueous	Ethylbenzene	8260B	350		ug/L	19
011	02314-MW-20	Aqueous	Naphthalene	8260B	180		ug/L	19
011	02314-MW-20	Aqueous	Toluene	8260B	3600		ug/L	19
011	02314-MW-20	Aqueous	Xylenes (total)	8260B	4200		ug/L	19
012	02314-MW-20 Dup	Aqueous	tert-Amyl alcohol (TAA)	8260B	4800		ug/L	20
012	02314-MW-20 Dup	Aqueous	Benzene	8260B	2200		ug/L	20
012	02314-MW-20 Dup	Aqueous	Ethylbenzene	8260B	340		ug/L	20

Detection Summary (Continued)

Lot Number: TC06056

Sample	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
012	02314-MW-20 Dup	Aqueous	Naphthalene	8260B	170		ug/L	20
012	02314-MW-20 Dup	Aqueous	Toluene	8260B	3300		ug/L	20
012	02314-MW-20 Dup	Aqueous	Xylenes (total)	8260B	4000		ug/L	20
013	02314-MW-21	Aqueous	tert-Amyl alcohol (TAA)	8260B	16	J	ug/L	21
015	02314-MW-23	•	tert-Amyl alcohol (TAA)	8260B	6800		ug/L	23
015	02314-MW-23	-	Benzene	8260B	1800		ug/L	23
015	02314-MW-23	•	Ethylbenzene	8260B	520		ug/L	23
015	02314-MW-23	Aqueous	Naphthalene	8260B	110		ug/L	23
015	02314-MW-23	Aqueous	•	8260B	5500		ug/L	23
015	02314-MW-23	-	Xylenes (total)	8260B	3200		ug/L	23
016	02314-MW-24	Aqueous	tert-Amyl alcohol (TAA)	8260B	3400		ug/L	24
016	02314-MW-24		Benzene	8260B	4000		ug/L	24
016	02314-MW-24	Aqueous	Diisopropyl ether (IPE)	8260B	48	J	ug/L	24
016	02314-MW-24		Ethylbenzene	8260B	740		ug/L	24
016	02314-MW-24	Aqueous	Naphthalene	8260B	91	J	ug/L	24
016	02314-MW-24	Aqueous	·	8260B	11000		ug/L	24
016	02314-MW-24	Aqueous	Xylenes (total)	8260B	4000		ug/L	24
017	02314-MW-25	Aqueous	tert-Amyl alcohol (TAA)	8260B	620		ug/L	25
017	02314-MW-25	•	Benzene	8260B	220		ug/L	25
017	02314-MW-25	•	Diisopropyl ether (IPE)	8260B	3.2	J	ug/L	25
017	02314-MW-25	Aqueous		8260B	9.1		ug/L	25
017	02314-MW-25	•	Xylenes (total)	8260B	90		ug/L	25
019	02314-MW-27	Aqueous	tert-Amyl alcohol (TAA)	8260B	1200		ug/L	27
019	02314-MW-27		Benzene	8260B	240		ug/L	27
019	02314-MW-27	Aqueous		8260B	4.8	J	ug/L	27
019	02314-MW-27	Aqueous	Ethylbenzene	8260B	4.4	J	ug/L	27
019	02314-MW-27	•	Naphthalene	8260B	4.8	J	ug/L	27
019	02314-MW-27	Aqueous	tert-butyl alcohol (TBA)	8260B	52	J	ug/L	27
019	02314-MW-27	Aqueous		8260B	6.4		ug/L	27
019	02314-MW-27	Aqueous	Xylenes (total)	8260B	33		ug/L	27
020	02314-DW-1	Aqueous	Xylenes (total)	8260B	0.42	J	ug/L	28
021	02314-DW-2	Aqueous	Benzene	8260B	1.7		ug/L	29
021	02314-DW-2	Aqueous		8260B	1.5		ug/L	29
021	02314-DW-2	Aqueous	Xylenes (total)	8260B	0.53	J	ug/L	29
022	02314-DW-3	Aqueous	Benzene	8260B	0.79	J	ug/L	30
022	02314-DW-3	Aqueous	Toluene	8260B	1.1		ug/L	30
023	02314-RW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	1300	J	ug/L	31
023	02314-RW-3	Aqueous	Benzene	8260B	1600		ug/L	31
023	02314-RW-3	Aqueous	Ethylbenzene	8260B	900		ug/L	31
023	02314-RW-3	•	Naphthalene	8260B	64	J	ug/L	31
023	02314-RW-3	Aqueous	Toluene	8260B	7500		ug/L	31
023	02314-RW-3		Xylenes (total)	8260B	5000		ug/L	31
024	02314-RW-3 Dup	Aqueous	tert-Amyl alcohol (TAA)	8260B	1200	J	ug/L	32
024	02314-RW-3 Dup		Benzene	8260B	1600		ug/L	32
024	02314-RW-3 Dup	•	Ethylbenzene	8260B	890		ug/L	32
024	02314-RW-3 Dup	•	Naphthalene	8260B	64	J	ug/L	32
024	02314-RW-3 Dup	Aqueous	•	8260B	7500		ug/L	32
024	02314-RW-3 Dup		Xylenes (total)	8260B	5000		ug/L	32
	•	-	- ,				-	

Detection Summary (Continued)

Lot Number: TC06056

Sample	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
026	02314-SW-2	Aqueous	Ethanol	8260B	150		ug/L	34

(94 detections)

Description: 02314-MW-3

Date Sampled: 03/06/2018 0947 Date Received: 03/06/2018

Methyl tertiary butyl ether (MTBE)

Naphthalene

Xylenes (total)

Toluene

tert-butyl alcohol (TBA)

Laboratory ID: TC06056-001

Matrix: Aqueous

ug/L

ug/L

ug/L

ug/L

ug/L

2

2

2

2

2

5.0

5.0

100

5.0

5.0

2.0

2.0

40

2.0

2.0

Volatile Organic Compounds I	by GC/MS
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Run Prep Method 2 5030B	Analytical Method 8260B		lysis Date Analyst 9/2018 0301 BWS	Prep Date	Batch 66477			
Parameter		CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	380	100	40	ug/L	2
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	50	2.1	ug/L	2
Benzene		71-43-2	8260B	230	5.0	2.0	ug/L	2
tert-Butyl formate (TBF)		762-75-4	8260B	ND	25	10	ug/L	2
1,2-Dichloroethane		107-06-2	8260B	5.6	5.0	2.0	ug/L	2
Diisopropyl ether (IPE)		108-20-3	8260B	ND	5.0	2.0	ug/L	2
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	100	40	ug/L	2
Ethanol		64-17-5	8260B	ND	500	200	ug/L	2
Ethylbenzene		100-41-4	8260B	270	5.0	2.0	ug/L	2
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	5.0	2.0	ug/L	2

8260B

8260B

8260B

8260B

8260B

ND

86

ND

310

1300

1634-04-4

91-20-3

75-65-0

108-88-3

1330-20-7

Run 2 Acceptance Surrogate Q % Recovery Limits 1,2-Dichloroethane-d4 95 70-130 Bromofluorobenzene 100 70-130 Toluene-d8 103 70-130

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Dat 03/07/2018 04	•	•		Batch 50 66207			
Para	meter		Nun		lytical ethod	Result	Q	LOQ	DL	Units	Run
1,2-0	ibromoethane (EDB)		106-9	93-4	8011	ND		0.019	0.0048	ug/L	1
Surre	ogate		Run 1	Acceptance Limits							

63 57-137 1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.

Description: 02314-MW-8 Date Sampled: 03/06/2018 1123

Date Received: 03/06/2018

1,2-Dichloroethane-d4

Bromofluorobenzene

Toluene-d8

Laboratory ID: TC06056-002

Matrix: Aqueous

Volatile Organic Co	ompounds by GC/MS
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Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date Analyst 5/07/2018 1730 KGT	Prep D	ate Batch 66251			
Parameter		CA: Numbe	•	Result (Q LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-	4 8260B	11000	400	160	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	200	8.4	ug/L	1
Benzene		71-43-	2 8260B	1300	20	8.0	ug/L	1
tert-Butyl formate (TBF)		762-75-4	4 8260B	ND	100	40	ug/L	1
1,2-Dichloroethane		107-06-2	2 8260B	ND	20	8.0	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	18 .	J 20	8.0	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	400	160	ug/L	1
Ethanol		64-17-	5 8260B	ND	2000	800	ug/L	1
Ethylbenzene		100-41-4	4 8260B	350	20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-	4 8260B	ND	20	8.0	ug/L	1
Naphthalene		91-20-	3 8260B	100	20	8.0	ug/L	1
tert-butyl alcohol (TBA)		75-65-6	0 8260B	ND	400	160	ug/L	1
Toluene		108-88-3	8260B	2800	20	8.0	ug/L	1
Xylenes (total)		1330-20-	7 8260B	4300	20	8.0	ug/L	1
Surrogate	Q %I		ceptance Limits					

EDB & DBCP by Microextraction

70-130

70-130

70-130

92

102

101

Run F	Prep Method 8011	Analytical Method 8011	Dilution 1	•	vsis Date Analyst 2018 0501 CHG	•	Batch 1750 66207			
Param	neter			CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dik	oromoethane (EDB)		106-	93-4	8011	ND	0.020	0.0049	ug/L	1
Surrog	gate		Run 1 Recovery	Accept Limi						
1112	2-Tetrachloroethane		71	57-1	37					

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-MW-9

Date Sampled: 03/05/2018 1639 Date Received: 03/06/2018

Laboratory ID: TC06056-003

Matrix: Aqueous

Volatile	Organic	Compounds	s by	/ GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/07/2018 1411 KGT		66251

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept Q % Recovery Lim						

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	-	95	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 0512 CHG	03/06/2018 1750	66207

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accept	ance					

Surrogate % Recovery Limits 1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Description: 02314-MW-10 Date Sampled: 03/05/2018 1630 Date Received: 03/06/2018

Laboratory ID: TC06056-004

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/07/2018 1436 KGT		66251

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept						

Surrogate	Q	Run 1 / % Recovery	Acceptance Limits	
1,2-Dichloroethane-d4		93	70-130	
Bromofluorobenzene		99	70-130	
Toluene-d8		101	70-130	

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analys	sis Date Analyst	Prep	Date	Batch			
1	8011	8011	1	03/07/2	018 0523 CHG	03/06/2	018 17	50 66207			
				CAS	Analytical						
Para	meter		Nun	nber	Method	Result	Q	LOQ	DL	Units	Run
1,2-0	ibromoethane (EDB)		106-9	93-4	8011	ND		0.019	0.0048	ug/L	1
			Run 1	Accepta	nce						

Surrogate % Recovery Limits 1,1,1,2-Tetrachloroethane 76 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314-MW-11
Date Sampled:03/05/2018 1609

Date Received: 03/06/2018

Laboratory ID: TC06056-005

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		Date Analyst 8 1500 KGT	Prep Date	Batch 66251			
Parameter		Num		Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-4	13-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	65-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-8	38-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate		Run 1 /	Acceptanc Limits	e					
1,2-Dichloroethane-d4		92	70-130			_	_		
Bromofluorobenzene		100	70-130						
Toluene-d8		100	70-130						

EDB & DBCP by Microextraction

1 8011	Analytical Method 8011		03/07/2018 0533	, ,	Date Batch 018 1750 66207			
Parameter		O Num	CAS Analytica		Q LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	3-4 801	1 ND	0.019	0.0048	ug/L	1
Surrogate		Run 1 A	Acceptance Limits					
1 1 1 2-Tetrachloroethane		71	57-137					

,1,1,2-Tetrachloroethane 71 57-13

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314-MW-12

Date Sampled:03/05/2018 1620 Date Received: 03/06/2018

Laboratory ID: TC06056-006 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 2 5030B	Analytical Method 8260B	Dilution 1	•	vsis Date Analyst 2018 0453 BWS	Prep D	Date	Batch 66477			
Parameter			CAS nber	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-	85-4	8260B	3200		20	8.0	ug/L	2
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND		10	0.42	ug/L	2
Benzene		71-	43-2	8260B	110		1.0	0.40	ug/L	2
tert-Butyl formate (TBF)		762-	75-4	8260B	ND		5.0	2.0	ug/L	2
1,2-Dichloroethane		107-	06-2	8260B	ND		1.0	0.40	ug/L	2
Diisopropyl ether (IPE)		108-2	20-3	8260B	0.79	J	1.0	0.40	ug/L	2
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND		20	8.0	ug/L	2
Ethanol		64-	17-5	8260B	ND		100	40	ug/L	2
Ethylbenzene		100-	41-4	8260B	47		1.0	0.40	ug/L	2
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND		1.0	0.40	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	21		1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)		75-	65-0	8260B	44		20	8.0	ug/L	2
Toluene		108-	88-3	8260B	200		1.0	0.40	ug/L	2
Xylenes (total)		1330-	20-7	8260B	240		1.0	0.40	ug/L	2

Surrogate	Q	Run 2 % Recovery	Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run Pre 1	p Method 8011	Analytical Method 8011	Dilution 1	Analysis Dat 03/07/2018 05	-	•	ate 1 18 1750 (Batch 66207			
Paramete	er				ytical thod	Result	Q L	.oQ	DL	Units	Run
1,2-Dibror	moethane (EDB)		106-9	93-4	8011	ND	0.	019	0.0048	ug/L	1
Surrogate	e	Q % I	Run 1	Acceptance Limits							

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314-MW-13

Date Sampled:03/06/2018 0911 Date Received: 03/06/2018

Laboratory ID: TC06056-007

Matrix: Aqueous

Volatile Organic Compounds I	by GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	100	03/07/2018 1934 KGT		66251

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	5100		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	42	ug/L	1
Benzene	71-43-2	8260B	3400		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	66	J	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	1800		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1
Naphthalene	91-20-3	8260B	440		100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1
Toluene	108-88-3	8260B	14000		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	11000		100	40	ug/L	1

		Run 1 A	cceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Metho	d Dilution	n Analysis Date	Analyst	Prep Date	Batch
1	8011	801	1	03/07/2018 0554	CHG	03/06/2018 1750	66207
				CAS Analyti	ical		

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0047	ug/L	1
	Run 1 Accent	ance					

1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.019	0.0047	ug/L
Surrogate	Q	Run 1 Acceptance % Recovery Limits					

57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

W = Reported on wet weight basis H = Out of holding time

Shealy Environmental Services, Inc.

1,1,1,2-Tetrachloroethane

Description: 02314-MW-15

Date Sampled:03/06/2018 1105 Date Received: 03/06/2018

Laboratory ID: TC06056-008 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	200	03/07/2018 2024 KGT		66251

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	10000	4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	2000	84	ug/L	1
Benzene	71-43-2	8260B	5300	200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND	20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	2000	200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	200	80	ug/L	1
Naphthalene	91-20-3	8260B	340	200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1600	ug/L	1
Toluene	108-88-3	8260B	17000	200	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	8600	200	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	d Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 0605 CHG	03/06/2018 1750	66207

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
	Pun 1 Accent	2000					

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

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 DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40%

H = Out of holding time W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Date Sampled: 03/05/2018 1751

Date Received: 03/06/2018

Description: 02314-MW-16

Laboratory ID: TC06056-009

Matrix: Aqueous

V	olatil	e Org	ganic	Com	pound	s by	y GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/07/2018 1525 KGT		66251

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept Q % Recovery Lim						

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date Batcl	h
1	8011	8011	1	03/07/2018 0616 CHG	03/06/2018 1750 6620	7

Parameter	CAS neter Number		Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accent	anco					

		Run 1	Acceptance
Surrogate	Q	% Recovery	Limits

^{1,1,1,2-}Tetrachloroethane 57-137

LOQ = Limit of Quantitation

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314-MW-18 Date Sampled: 03/05/2018 1729 Date Received: 03/06/2018

Laboratory ID: TC06056-010

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/07/2018 1550 KGT		66251

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	tance					

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run Prep Method 1 8011		Analytical Method 8011	Dilution Analysis Date Analyst 1 03/07/2018 0626 CHG			Prep Date Batch 03/06/2018 1750 66207					
Para	nmeter			CAS nber	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-0	Dibromoethane (EDB)		106-9	93-4	8011	ND		0.019	0.0048	ug/L	1
			Run 1	Accent	ance						

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 DL = Detection Limit ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40%

% Recovery

H = Out of holding time W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Surrogate

Description: 02314-MW-20

Date Sampled:03/06/2018 0859 Date Received: 03/06/2018 Laboratory ID: TC06056-011

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	50	03/07/2018 1819 KGT		66251

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	4600		1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	21	ug/L	1
Benzene	71-43-2	8260B	2300		50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	43	J	50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	2000	ug/L	1
Ethylbenzene	100-41-4	8260B	350		50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	20	ug/L	1
Naphthalene	91-20-3	8260B	180		50	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	400	ug/L	1
Toluene	108-88-3	8260B	3600		50	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	4200		50	20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 0637 CHG	03/06/2018 1750	66207

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accent	ance					

	Run 1 Acceptance	
Surrogate	Q % Recovery 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
P = The RPD between two GC columns exceeds 40%

e DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time N = Recovery is out of criteria W = Reported on wet weight basis J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.

Description: 02314-MW-20 Dup Date Sampled: 03/06/2018 0901 Date Received: 03/06/2018

Laboratory ID: TC06056-012

Matrix: Aqueous

Volatile	Organic	Compounds	by	y GC/MS
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Run Prep Method 1 5030B	Analytical Method 8260B		Analysis Date Analyst 3/07/2018 1909 KGT	Prep Date	Batch 66251			
Parameter		C <i>A</i> Numb	,	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85	-4 8260B	4800	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-	-8 8260B	ND	500	21	ug/L	1
Benzene		71-43	-2 8260B	2200	50	20	ug/L	1
tert-Butyl formate (TBF)		762-75-	-4 8260B	ND	250	100	ug/L	1
1,2-Dichloroethane		107-06-	-2 8260B	ND	50	20	ug/L	1
Diisopropyl ether (IPE)		108-20-	-3 8260B	ND	50	20	ug/L	1
3,3-Dimethyl-1-butanol		624-95-	-3 8260B	ND	1000	400	ug/L	1
Ethanol		64-17	-5 8260B	ND	5000	2000	ug/L	1
Ethylbenzene		100-41	-4 8260B	340	50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-	-3 8260B	ND	50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04	-4 8260B	ND	50	20	ug/L	1
Naphthalene		91-20	-3 8260B	170	50	20	ug/L	1
tert-butyl alcohol (TBA)		75-65	-0 8260B	ND	1000	400	ug/L	1
Toluene		108-88	-3 8260B	3300	50	20	ug/L	1
Xylenes (total)		1330-20	-7 8260B	4000	50	20	ug/L	1
Surrogate	Q %I	Run 1 Ac Recovery	ceptance Limits					

EDB & DBCP by Microextraction

70-130

70-130

70-130

90

100

99

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1		ysis Date Analyst /2018 1755 DAL1	Prep D 03/06/20		Batch 66229			
Para	meter			CAS nber	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-D	ibromoethane (EDB)		106-	93-4	8011	ND	(0.019	0.0048	ug/L	1
Surre	ogate		Run 1 Recovery	Accept Lim							
111	2 Totrophloropthone		ee.	57 /	127						

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

1,2-Dichloroethane-d4

Bromofluorobenzene

Toluene-d8

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Date Sampled:03/05/2018 1359

Date Received: 03/06/2018

Description: 02314-MW-21

Laboratory ID: TC06056-013

Matrix: Aqueous

Volatile O	rganic	Comp	oounds	by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/07/2018 1615 KGT		66251

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	16 J	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1

		Run 1 A	cceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1 8011	8011	1	03/07/2018 1805 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accept	ance					

Surrogate Q	% Recovery	limits
•		

1,1,1,2-Tetrachloroethane 79 57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-MW-22

Date Sampled:03/05/2018 1330 Date Received: 03/06/2018

Laboratory ID: TC06056-014 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/07/2018 1640 KGT		66251

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	tance					

Surrogate	Q	Run 1 A % Recovery	acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

1 8011 8011 1 03/07/2018 1816 DAL1 03/06/2018 2155 66229	Run	Prep Method	Analytical Method	l Dilution	Analysis Date Analyst	Prep Date	Batch
	1	8011	8011	1	03/07/2018 1816 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Pun 1 Accent	anaa					

	Run 1 Acceptance
Surrogate	Q % Recovery Limits

1,1,1,2-Tetrachloroethane 63 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis DL = Detection Limit $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-MW-23

Date Sampled: 03/06/2018 0830 Date Received: 03/06/2018

Laboratory ID: TC06056-015 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 50	•	s Date Analyst 18 1844 KGT	Prep Date	Batch 66251			
Parameter		(Num	CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	85-4	8260B	6800	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	05-8	8260B	ND	500	21	ug/L	1
Benzene		71-4	43-2	8260B	1800	50	20	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	250	100	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	50	20	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	50	20	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	1000	400	ug/L	1
Ethanol		64-1	17-5	8260B	ND	5000	2000	ug/L	1
Ethylbenzene		100-4	11-4	8260B	520	50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	50	20	ug/L	1
Naphthalene		91-2	20-3	8260B	110	50	20	ug/L	1
tert-butyl alcohol (TBA)		75-6	65-0	8260B	ND	1000	400	ug/L	1
Toluene		108-8	38-3	8260B	5500	50	20	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	3200	50	20	ug/L	1
Surrogate	Q % I	Run 1 /	Acceptan Limits						
1,2-Dichloroethane-d4		89	70-130						
Bromofluorobenzene		97	70-130)					
Toluene-d8		100	70-130)					

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	•	ysis Date Analyst 2018 1827 DAL1	•	te Batch 8 2155 66229			
Parai	meter			CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-D	ibromoethane (EDB)		106-	93-4	8011	ND	0.019	0.0048	ug/L	1
Surro	ogate	Q %	Run 1 Recovery	Accept Lim						
1 1 1	2-Tetrachloroethane		80	57_1	37					

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Date Received: 03/06/2018

Toluene-d8

Description: 02314-MW-24 Date Sampled: 03/05/2018 1439 Laboratory ID: TC06056-016

Matrix: Aqueous

Volatile Organic Compounds by GC/MS	S
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Run Prep Method 1 5030B	Analytical Method 8260B		alysis Date Analyst 07/2018 1959 KGT	Prep Da	te Batch 66251			
Parameter		CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	3400	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	1000	42	ug/L	1
Benzene		71-43-2	8260B	4000	100	40	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	48 J	100	40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol		64-17-5	8260B	ND	10000	4000	ug/L	1
Ethylbenzene		100-41-4	8260B	740	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene		91-20-3	8260B	91 J	100	40	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND	2000	800	ug/L	1
Toluene		108-88-3	8260B	11000	100	40	ug/L	1
Xylenes (total)		1330-20-7	8260B	4000	100	40	ug/L	1
Surrogate	Q % I		eptance imits					
1,2-Dichloroethane-d4		91 70	0-130		_			
Bromofluorobenzene		100 70	0-130					

EDB & DBCP by Microextraction

70-130

Run Prep Method 1 8011	Analytical Method 8011	Dilution 1	•	Date Analyst 1838 DAL1	•	Batch 2155 66229			
Parameter		Num		nalytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.019	0.0048	ug/L	1
Surrogate		Run 1 /	Acceptance Limits	•					
1,1,1,2-Tetrachloroethane		62	57-137						

LOQ = Limit of Quantitation

102

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40%

W = Reported on wet weight basis H = Out of holding time

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-MW-25 Date Sampled: 03/05/2018 1504

Date Received: 03/06/2018

Laboratory ID: TC06056-017 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	5	03/08/2018 1631 JJG		66374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	620		100	40	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	2.1	ug/L	1
Benzene	71-43-2	8260B	220		5.0	2.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	10	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	3.2	J	5.0	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	40	ug/L	1
Ethanol	64-17-5	8260B	ND		500	200	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	2.0	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	9.1		5.0	2.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	90		5.0	2.0	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 & DBCP by Microextraction

Run	Prep Method	Analytical Method D	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 1848 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accent	ance					

		Run 1	Acceptance
Surrogate	Q	% Recovery	Limits

1,1,1,2-Tetrachloroethane 65 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-MW-26

Date Sampled:03/05/2018 1519 Date Received: 03/06/2018

Laboratory ID: TC06056-018 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1208 JJG		66374

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	ance					

		Run 1 A	cceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

1 8011 8011 1 03/07/2018 1859 DAL1 03/06/2018 2155 66229	Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
	1	8011	8011	1	03/07/2018 1859 DAL1	03/06/2018 215	55 66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Dun 4 Assent						

1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	
Surrogate	Run 1 Acceptano Q % Recovery Limits	e				

57-137 1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314-MW-27

Date Sampled:03/05/2018 1539 Date Received: 03/06/2018

Laboratory ID: TC06056-019

Matrix: Aqueous

Volatile	Organic	Compounds	i by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	5	03/08/2018 1653 JJG		66374

B	CAS	Analytical	D 14	•	1.00	D.	1114-	D
Parameter	Number	Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	1200		100	40	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	2.1	ug/L	1
Benzene	71-43-2	8260B	240		5.0	2.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	10	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	4.8	J	5.0	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	40	ug/L	1
Ethanol	64-17-5	8260B	ND		500	200	ug/L	1
Ethylbenzene	100-41-4	8260B	4.4	J	5.0	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	2.0	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	4.8	J	5.0	2.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	52	J	100	40	ug/L	1
Toluene	108-88-3	8260B	6.4		5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	33		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run Prep Me	ethod	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 1910 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accent	ance					

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

1,1,1,2-Tetrachloroethane 61 57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-DW-1

Date Sampled:03/05/2018 1810 Date Received: 03/06/2018 Laboratory ID: TC06056-020

Matrix: Aqueous

Volatile	Organic	Compounds	by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1230 JJG		66374

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.42 J	1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run I	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst Prep	Date	Batch			
1	8011	8011	1	03/07/2018 1920 DAL1 03		03/06/2018 2155 66229				
				CAS Analy	tical					
Paran	neter		Nun	nber Met	hod Result	Q	LOQ	DL	Units	Run
1,2-Dil	bromoethane (EDB)		106-	93-4	011 ND	0	.019	0.0048	ug/L	1

Run 1 Acceptance
Surrogate Q % Recovery Limits

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40%
H = Out of holding time W = Reported on wet weight basis

J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.

^{1,1,1,2-}Tetrachloroethane 65 57-137

Description: 02314-DW-2

Date Sampled:03/05/2018 1346 Date Received: 03/06/2018 Laboratory ID: TC06056-021

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1252 JJG		66374

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	1.7	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	1.5	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.53 J	1.0	0.40	ug/L	1

		Run 1 A	cceptance	
Surrogate	Q	% Recovery	Limits	
1,2-Dichloroethane-d4		97	70-130	
Bromofluorobenzene		101	70-130	
Toluene-d8		101	70-130	

EDB & DBCP by Microextraction

Run Pr	rep Method	Analytical Method	Dilution	Analysis	Date Analyst	Prep	Date	Batch			
1	8011	8011	1	03/07/2018 1952 DAL1 03		1 03/06/2018 2155 66229					
				CAS ,	Analytical						
Parame	eter		Nun	nber	Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibre	omoethane (EDB)		106-	93-4	8011	ND	(0.020	0.0049	ug/L	1

Run 1 Acceptance
Surrogate Q % Recovery Limits

1,1,1,2-Tetrachloroethane 61 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time N = Recovery is out of criteria
W = Reported on wet weight basis

J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.

Description: 02314-DW-3

Date Sampled:03/05/2018 1425 Date Received: 03/06/2018

Laboratory ID: TC06056-022

Matrix: Aqueous

Volatile	Organic	Comp	ounds	by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1314 JJG		66374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	0.79	J	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	1.1		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 2003 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.020	0.0050	ug/L	1
	Run 1 Accept	ance					

Surrogate % Recovery Limits

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

P = The RPD between two GC columns exceeds 40%

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-RW-3 Date Sampled: 03/06/2018 1010

Date Received: 03/06/2018

Laboratory ID: TC06056-023 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	100	03/08/2018 1715 JJG		66374

Parameter	CAS Number	Analytical Method	Result (Q LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	1300	J 2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	42	ug/L	1
Benzene	71-43-2	8260B	1600	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND	10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	900	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene	91-20-3	8260B	64	J 100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	2000	800	ug/L	1
Toluene	108-88-3	8260B	7500	100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	5000	100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date I	Batch
1	8011	8011	1	03/07/2018 2013 DAL1	03/06/2018 2155 (36229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accent	ance					

		Run 1	Acceptance
Surrogate	Q	% Recovery	Limits

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

W = Reported on wet weight basis

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-RW-3 Dup Date Sampled: 03/06/2018 1012 Date Received: 03/06/2018

Run Prep Method

Laboratory ID: TC06056-024

Batch

Matrix: Aqueous

Volatile	Organic	Compounds	bν	GC/MS

Prep Date

Analytical Method Dilution Analysis Date Analyst

1 5030B	8260B 100 03/08	/2018 1737 JJG	-	66374			
Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	1200 J	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	42	ug/L	1
Benzene	71-43-2	8260B	1600	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND	10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	890	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene	91-20-3	8260B	64 J	100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	2000	800	ug/L	1
Toluene	108-88-3	8260B	7500	100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	5000	100	40	ug/L	1

Surrogate	O	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	<u> </u>	100	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011		Analysis Date Analyst 3/07/2018 2024 DAL1	Prep Date 03/06/2018				
Parameter		CA Numbe	/ inally trous	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-	4 8011	ND	0.019	0.0047	ug/L	1
Surrogate			ceptance Limits					

80 1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314-SW-1
Date Sampled: 03/05/2018 1545

Date Sampled:03/05/2018 154 Date Received:03/06/2018 Laboratory ID: TC06056-025

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1336 JJG		66374

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	tance					

		Run 1	Acceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	70-130

% Recovery

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011	Dilution 1		ysis Date Analyst /2018 2034 DAL1	•	te Batch 8 2155 66229			
Parameter		Num	CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.019	0.0048	ug/L	1
		Run 1	Accept	ance					

Limits

1,1,1,2-Tetrachloroethane 75 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Surrogate

Description: 02314-SW-2

Date Sampled:03/05/2018 1643 Date Received: 03/06/2018

Laboratory ID: TC06056-026 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1358 JJG		66374

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	150	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	tance					

		Run 1 A	cceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

1 8011 8011 1 03/07/2018 2045 DAL1 03/06/2018 2155 66229	Run F	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
	1	8011	8011	1	03/07/2018 2045 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0049	ug/L	1
	Run 1 Accept	ance					

Surrogate	Q	% Recovery	Limits
1 1 1 2 Tetrachlereethene		70	E7 127

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation B = Detected in the method blank ND = Not detected at or above the DL N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

W = Reported on wet weight basis

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314-FB-1

Date Sampled:03/05/2018 1245 Date Received: 03/06/2018

Laboratory ID: TC06056-027 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1420 JJG		66374

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	tance					

		Run 1 A	Acceptance	
Surrogate	Q	% Recovery	Limits	
1,2-Dichloroethane-d4		98	70-130	
Bromofluorobenzene		100	70-130	
Toluene-d8		101	70-130	

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 2056 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Run 1 Accept	ance					

Surrogate	Q	% Recovery	Limits	
1 1 1 2 Totrochloroothono		9.4	E7 127	

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

W = Reported on wet weight basis H = Out of holding time

Shealy Environmental Services, Inc.

Description: 02314-FB-2

Date Sampled: 03/06/2018 0800 Date Received: 03/06/2018

Laboratory ID: TC06056-028

Matrix: Aqueous

V	olatile	Organic	Com	pounds	by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1442 JJG		66374

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1

		Run 1 A	cceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run Pr	ep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 2107 DAL1	03/06/2018 2155	66229

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
	Pun 1 Accont	anco					

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

1,1,1,2-Tetrachloroethane 80 57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Date Received: 03/06/2018

Description: 02314-TB-1 Date Sampled: 03/05/2018

Laboratory ID: TC06056-029

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date Analyst 8/08/2018 1504 JJG	Prep Date	Batch 66374			
Parameter		CA Numbe	,	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-	4 8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-	8 8260B	ND	10	0.42	ug/L	1
Benzene		71-43-	2 8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75-	4 8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06-2	2 8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20-	3 8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-	3 8260B	ND	20	8.0	ug/L	1
Ethanol		64-17-	5 8260B	ND	100	40	ug/L	1
Ethylbenzene		100-41-	4 8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-	3 8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-	4 8260B	ND	1.0	0.40	ug/L	1
Naphthalene		91-20-	3 8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65-	0 8260B	ND	20	8.0	ug/L	1
Toluene		108-88-	3 8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)		1330-20-	7 8260B	ND	1.0	0.40	ug/L	1
		Run 1 Acc	ceptance					

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation

B = Detected in the method blank

P = The RPD between two GC columns exceeds 40%

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.



Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66251-001 Batch: 66251

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/07/2018 1140
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/07/2018 1140
Benzene	ND		1	1.0	0.40	ug/L	03/07/2018 1140
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/07/2018 1140
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/07/2018 1140
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/07/2018 1140
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/07/2018 1140
Ethanol	ND		1	100	40	ug/L	03/07/2018 1140
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/07/2018 1140
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/07/2018 1140
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/07/2018 1140
Naphthalene	ND		1	1.0	0.40	ug/L	03/07/2018 1140
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	03/07/2018 1140
Toluene	ND		1	1.0	0.40	ug/L	03/07/2018 1140
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/07/2018 1140
Surrogate	Q %	Rec	Acceptance Limit				
1,2-Dichloroethane-d4	9	8	70-130				
Bromofluorobenzene	10)3	70-130				
Toluene-d8	10)1	70-130				

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66251-002

Batch: 66251

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

	Spike Amount	Result				% Rec	
Parameter	(ug/L)	(ug/L)	Q	Dil	% Rec	Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	108	70-130	03/07/2018 1008
tert-Amyl methyl ether (TAME)	50	53		1	105	70-130	03/07/2018 1008
Benzene	50	53		1	106	70-130	03/07/2018 1008
tert-Butyl formate (TBF)	250	270		1	109	70-130	03/07/2018 1008
1,2-Dichloroethane	50	53		1	106	70-130	03/07/2018 1008
Diisopropyl ether (IPE)	50	51		1	103	70-130	03/07/2018 1008
3,3-Dimethyl-1-butanol	1000	1100		1	112	60-140	03/07/2018 1008
Ethanol	5000	5500		1	109	60-140	03/07/2018 1008
Ethylbenzene	50	54		1	109	70-130	03/07/2018 1008
Ethyl-tert-butyl ether (ETBE)	50	53		1	106	70-130	03/07/2018 1008
Methyl tertiary butyl ether (MTBE)	50	55		1	110	70-130	03/07/2018 1008

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

+ = RPD is out of criteria

LOD = Limit of Detection ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66251-002 Batch: 66251 Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	55	1	110	70-130	03/07/2018 1008
tert-butyl alcohol (TBA)	1000	1100	1	110	70-130	03/07/2018 1008
Toluene	50	54	1	108	70-130	03/07/2018 1008
Xylenes (total)	100	110	1	109	70-130	03/07/2018 1008
Surrogate	Q % Rec	Acceptance Limit				
1,2-Dichloroethane-d4	90	70-130				
Bromofluorobenzene	98	70-130				
Toluene-d8	99	70-130				

Volatile Organic Compounds by GC/MS - MS

Sample ID: TC06056-007MS

Batch: 66251 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	5100	100000	110000		100	109	70-130	03/07/2018 2049
tert-Amyl methyl ether (TAME)	ND	5000	5600		100	111	70-130	03/07/2018 2049
Benzene	3400	5000	9300		100	119	70-130	03/07/2018 2049
tert-Butyl formate (TBF)	ND	25000	23000		100	91	70-130	03/07/2018 2049
1,2-Dichloroethane	ND	5000	5700		100	115	70-130	03/07/2018 2049
Diisopropyl ether (IPE)	66	5000	5400		100	107	70-130	03/07/2018 2049
3,3-Dimethyl-1-butanol	ND	100000	120000		100	116	60-140	03/07/2018 2049
Ethanol	ND	500000	510000		100	101	60-140	03/07/2018 2049
Ethylbenzene	1800	5000	7700		100	119	70-130	03/07/2018 2049
Ethyl-tert-butyl ether (ETBE)	ND	5000	5300		100	107	70-130	03/07/2018 2049
Methyl tertiary butyl ether (MTBE)	ND	5000	5600		100	112	70-130	03/07/2018 2049
Naphthalene	440	5000	5900		100	110	70-130	03/07/2018 2049
tert-butyl alcohol (TBA)	ND	100000	110000		100	109	70-130	03/07/2018 2049
Toluene	14000	5000	20000		100	115	70-130	03/07/2018 2049
Xylenes (total)	11000	10000	23000		100	125	70-130	03/07/2018 2049

Surrogate	Q % Rec	Acceptance Limit	
1,2-Dichloroethane-d4	92	70-130	
Bromofluorobenzene	103	70-130	
Toluene-d8	98	70-130	

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and <math>\geq DL$

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TC06056-007MD

Batch: 66251 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	5100	100000	110000		100	102	5.8	70-130	20	03/07/2018 2114
tert-Amyl methyl ether (TAME)	ND	5000	5000		100	100	11	70-130	20	03/07/2018 2114
Benzene	3400	5000	8900		100	110	5.1	70-130	20	03/07/2018 2114
tert-Butyl formate (TBF)	ND	25000	21000		100	83	9.0	70-130	20	03/07/2018 2114
1,2-Dichloroethane	ND	5000	5400		100	108	6.5	70-130	20	03/07/2018 2114
Diisopropyl ether (IPE)	66	5000	5100		100	102	5.1	70-130	20	03/07/2018 2114
3,3-Dimethyl-1-butanol	ND	100000	100000		100	104	11	60-140	20	03/07/2018 2114
Ethanol	ND	500000	490000		100	98	3.0	60-140	20	03/07/2018 2114
Ethylbenzene	1800	5000	7400		100	113	4.3	70-130	20	03/07/2018 2114
Ethyl-tert-butyl ether (ETBE)	ND	5000	5000		100	100	6.7	70-130	20	03/07/2018 2114
Methyl tertiary butyl ether (MTBE)	ND	5000	5100		100	103	8.1	70-130	20	03/07/2018 2114
Naphthalene	440	5000	5700		100	105	4.2	70-130	20	03/07/2018 2114
tert-butyl alcohol (TBA)	ND	100000	100000		100	102	6.9	70-130	20	03/07/2018 2114
Toluene	14000	5000	20000		100	111	1.1	70-130	20	03/07/2018 2114
Xylenes (total)	11000	10000	22000		100	115	4.6	70-130	20	03/07/2018 2114
Surrogate	Q % Re		eptance Limit							
1,2-Dichloroethane-d4	88		70-130							
Bromofluorobenzene	99		70-130							
Toluene-d8	98		70-130							

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66374-001

Batch: 66374

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/08/2018 0956
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/08/2018 0956
Benzene	ND		1	1.0	0.40	ug/L	03/08/2018 0956
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/08/2018 0956
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/08/2018 0956
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/08/2018 0956
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/08/2018 0956
Ethanol	ND		1	100	40	ug/L	03/08/2018 0956
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/08/2018 0956
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/08/2018 0956
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/08/2018 0956

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66374-001 Batch: 66374

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Result	Q Dil	LOQ	DL	Units	Analysis Date
ND	1	1.0	0.40	ug/L	03/08/2018 0956
ND	1	20	8.0	ug/L	03/08/2018 0956
ND	1	1.0	0.40	ug/L	03/08/2018 0956
ND	1	1.0	0.40	ug/L	03/08/2018 0956
Q % Rec	Acceptance Limit				
98	70-130				
99	70-130				
100	70-130				
	ND ND ND Q % Rec 98 99	ND 1 ND 1 ND 1 Acceptance Limit 98 70-130 99 70-130	ND 1 20 ND 1 1.0 ND 1 1.0 Acceptance Limit 98 70-130 99 70-130	ND 1 20 8.0 ND 1 1.0 0.40 ND 1 1.0 0.40 Acceptance Limit 98 70-130 99 70-130	ND 1 20 8.0 ug/L ND 1 1.0 0.40 ug/L ND 1 1.0 0.40 ug/L Acceptance Limit 98 70-130 99 70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66374-002 Batch: 66374

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	850	1	85	70-130	03/08/2018 0858
tert-Amyl methyl ether (TAME)	50	43	1	85	70-130	03/08/2018 0858
Benzene	50	48	1	97	70-130	03/08/2018 0858
tert-Butyl formate (TBF)	250	210	1	84	70-130	03/08/2018 0858
1,2-Dichloroethane	50	48	1	96	70-130	03/08/2018 0858
Diisopropyl ether (IPE)	50	46	1	92	70-130	03/08/2018 0858
3,3-Dimethyl-1-butanol	1000	840	1	84	60-140	03/08/2018 0858
Ethanol	5000	4600	1	92	60-140	03/08/2018 0858
Ethylbenzene	50	47	1	94	70-130	03/08/2018 0858
Ethyl-tert-butyl ether (ETBE)	50	47	1	95	70-130	03/08/2018 0858
Methyl tertiary butyl ether (MTBE)	50	49	1	97	70-130	03/08/2018 0858
Naphthalene	50	41	1	83	70-130	03/08/2018 0858
tert-butyl alcohol (TBA)	1000	880	1	88	70-130	03/08/2018 0858
Toluene	50	46	1	92	70-130	03/08/2018 0858
Xylenes (total)	100	94	1	94	70-130	03/08/2018 0858
Surrogate	Q % Rec	Acceptance Limit				
1,2-Dichloroethane-d4	99	70-130				
Bromofluorobenzene	103	70-130				
Toluene-d8	102	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MS

Sample ID: TC06056-023MS

Batch: 66374 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1300	100000	110000		100	112	70-130	03/08/2018 1759
tert-Amyl methyl ether (TAME)	ND	5000	4600		100	93	70-130	03/08/2018 1759
Benzene	1600	5000	7100		100	110	70-130	03/08/2018 1759
tert-Butyl formate (TBF)	ND	25000	21000		100	83	70-130	03/08/2018 1759
1,2-Dichloroethane	ND	5000	5500		100	111	70-130	03/08/2018 1759
Diisopropyl ether (IPE)	ND	5000	5100		100	103	70-130	03/08/2018 1759
3,3-Dimethyl-1-butanol	ND	100000	110000		100	110	60-140	03/08/2018 1759
Ethanol	ND	500000	600000		100	119	60-140	03/08/2018 1759
Ethylbenzene	900	5000	6100		100	104	70-130	03/08/2018 1759
Ethyl-tert-butyl ether (ETBE)	ND	5000	5100		100	103	70-130	03/08/2018 1759
Methyl tertiary butyl ether (MTBE)	ND	5000	5200		100	104	70-130	03/08/2018 1759
Naphthalene	64	5000	4800		100	94	70-130	03/08/2018 1759
tert-butyl alcohol (TBA)	ND	100000	120000		100	116	70-130	03/08/2018 1759
Toluene	7500	5000	12000		100	97	70-130	03/08/2018 1759
Xylenes (total)	5000	10000	15000		100	102	70-130	03/08/2018 1759
Surrogate	Q % Re		eptance Limit					
1,2-Dichloroethane-d4	100	7	70-130					
Bromofluorobenzene	102	7	70-130					
Toluene-d8	102	7	70-130					

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TC06056-023MD

Batch: 66374

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Baramatar	Sample Amount	Spike Amount	Result	•	Dil	% Rec	% RPD	% Rec	% RPD Limit	Analysis Data
Parameter	(ug/L)	(ug/L)	(ug/L)	Q	Dil	% Kec	% KPD	Limit	Limit	Analysis Date
tert-Amyl alcohol (TAA)	1300	100000	120000		100	116	3.6	70-130	20	03/08/2018 1821
tert-Amyl methyl ether (TAME)	ND	5000	4600		100	92	0.57	70-130	20	03/08/2018 1821
Benzene	1600	5000	6900		100	107	2.1	70-130	20	03/08/2018 1821
tert-Butyl formate (TBF)	ND	25000	20000		100	81	2.5	70-130	20	03/08/2018 1821
1,2-Dichloroethane	ND	5000	5400		100	108	2.3	70-130	20	03/08/2018 1821
Diisopropyl ether (IPE)	ND	5000	5000		100	100	2.3	70-130	20	03/08/2018 1821
3,3-Dimethyl-1-butanol	ND	100000	110000		100	114	3.5	60-140	20	03/08/2018 1821
Ethanol	ND	500000	610000		100	122	1.9	60-140	20	03/08/2018 1821
Ethylbenzene	900	5000	5900		100	101	2.4	70-130	20	03/08/2018 1821
Ethyl-tert-butyl ether (ETBE)	ND	5000	5100		100	102	0.78	70-130	20	03/08/2018 1821
Methyl tertiary butyl ether (MTBE)	ND	5000	5100		100	102	1.8	70-130	20	03/08/2018 1821

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and <math>\geq DL$

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TC06056-023MD

Batch: 66374 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Naphthalene	64	5000	4800		100	96	1.6	70-130	20	03/08/2018 1821
tert-butyl alcohol (TBA)	ND	100000	120000		100	119	3.2	70-130	20	03/08/2018 1821
Toluene	7500	5000	12000		100	93	1.9	70-130	20	03/08/2018 1821
Xylenes (total)	5000	10000	15000		100	99	2.0	70-130	20	03/08/2018 1821
Surrogate	Q % Rec		otance nit							
1,2-Dichloroethane-d4	100	70-	-130							
Bromofluorobenzene	103	70-	-130							
Toluene-d8	103	70-	-130							

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66477-001 Batch: 66477 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	LOC	Q DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/08/2018 2107
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/08/2018 2107
Benzene	ND		1	1.0	0.40	ug/L	03/08/2018 2107
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/08/2018 2107
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/08/2018 2107
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/08/2018 2107
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/08/2018 2107
Ethanol	ND		1	100	40	ug/L	03/08/2018 2107
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/08/2018 2107
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/08/2018 2107
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/08/2018 2107
Naphthalene	ND		1	1.0	0.40	ug/L	03/08/2018 2107
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	03/08/2018 2107
Toluene	ND		1	1.0	0.40	ug/L	03/08/2018 2107
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/08/2018 2107
Surrogate	Q % Red	-	ceptance Limit				
1,2-Dichloroethane-d4	97		70-130				
Bromofluorobenzene	102		70-130				
Toluene-d8	101		70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and <math>\geq DL$

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66477-002 Batch: 66477 Matrix: Aqueous 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	890	1	89	70-130	03/08/2018 2007
tert-Amyl methyl ether (TAME)	50	40	1	80	70-130	03/08/2018 2007
Benzene	50	47	1	94	70-130	03/08/2018 2007
tert-Butyl formate (TBF)	250	200	1	78	70-130	03/08/2018 2007
1,2-Dichloroethane	50	47	1	94	70-130	03/08/2018 2007
Diisopropyl ether (IPE)	50	44	1	88	70-130	03/08/2018 2007
3,3-Dimethyl-1-butanol	1000	880	1	88	60-140	03/08/2018 2007
Ethanol	5000	4900	1	98	60-140	03/08/2018 2007
Ethylbenzene	50	45	1	91	70-130	03/08/2018 2007
Ethyl-tert-butyl ether (ETBE)	50	45	1	89	70-130	03/08/2018 2007
Methyl tertiary butyl ether (MTBE)	50	45	1	89	70-130	03/08/2018 2007
Naphthalene	50	41	1	82	70-130	03/08/2018 2007
tert-butyl alcohol (TBA)	1000	910	1	91	70-130	03/08/2018 2007
Toluene	50	44	1	89	70-130	03/08/2018 2007
Xylenes (total)	100	90	1	90	70-130	03/08/2018 2007
Surrogate	Q % Rec	Acceptance Limit				
1,2-Dichloroethane-d4	98	70-130				
Bromofluorobenzene	101	70-130				
Toluene-d8	102	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection ND = Not detected at or above the DL

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

EDB & DBCP by Microextraction - MB

Sample ID: TQ66207-001

Batch: 66207

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 03/06/2018 1750

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.0050	ug/L	03/07/2018 0233
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	80	57-137				

EDB & DBCP by Microextraction - LCS

Sample ID: TQ66207-002

Batch: 66207

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 03/06/2018 1750

	Spike Amount	Result				% Rec	
Parameter	(ug/L)	(ug/L)	Q	Dil	% Rec	Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	92	60-140	03/07/2018 0243
Surrogate	Q % Rec	Acceptai Limit					
1.1.1.2-Tetrachloroethane	83	57-13	7				

EDB & DBCP by Microextraction - MB

Sample ID: TQ66229-001

Batch: 66229

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 03/06/2018 2155

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.0050	ug/L	03/07/2018 1733
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	80	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - LCS

Sample ID: TQ66229-002

Batch: 66229

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 03/06/2018 2155

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.24	1	97	60-140	03/07/2018 1744
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	93	57-137				

EDB & DBCP by Microextraction - MS

Sample ID: TC06056-020MS

Batch: 66229

Matrix: Aqueous Prep Method: 8011

Prep Date: 03/06/2018 2155

Analytical Method: 8011

	Sample Amount	Spike Amount	Result				% Rec	
Parameter	(ug/L)	(ug/L)	(ug/L)	Q	Dil	% Rec	Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.18		1	74	60-140	03/07/2018 1931
Surrogate	Q % Red		ptance imit					
1,1,1,2-Tetrachloroethane	65	57	7-137				•	

EDB & DBCP by Microextraction - MSD

Sample ID: TC06056-020MD

Batch: 66229

Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011

1,1,1,2-Tetrachloroethane

Prep Date: 03/06/2018 2155

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	0.17		1	72	4.5	60-140	20	03/07/2018 1941
Surrogate	Q % Re		otance mit							

57-137

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

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Shealy Environmental Services, Inc.

Chain of Custody and Miscellaneous Documents

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Chain of Custody Record

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 81666

SHEALY ENVIRONMENTAL SERVICES, INC.

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um Around Time Required (Prior ish approval regula Standard - Rush (Specify)	ed for expedited TAT.)	Sample Disp		Disposal by	rtab		ible Ha a-Heza				Ski	in /rritant	laknown	QC Requ	uineme	nls (Specify)	
Retirequisition by Plu AM	2	Date 316	118	152	2		roeivoe	-						Date		Time	
Relinquished by		Date		Time		2. Fit	ceived	by						Date	****	Time	
3. Helinquisited by		Date		Time		o. ne	celved	by						Date		Time	
. Anlinquished by	1011	Date		Time		4. La	boreto	y rec	elved (by		L. Hole		Date 3-6-1	Ω	Turns: 1522	
Note: All samples are retain unless other arra			ceipt				USE C		(Circle)	(Y95)	. No		Tome	2.2		1294	

DISTRIBUTION: WHITE & YELLOW-Robin to Introductory with Sample(a); PINK-Medicilient Copy

Document Number: F-AD-133 Effective Date: 09-01-2014

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Chain of Custody Record

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 81667

SHEALY ENVIRONMENTAL SERVICES, INC.

Client	EQUIES	Report to	Conta	er	5 52-		4 ('OA	117		Telepi	hone N	0./E-m	73.	-82	00			Quote N	lo.
ERRY THURDONNEWTAL!		Samoler's	Signe	ture	1	1	X /	1	3		Analy	sis (Att	ich list	if more	space is	neede	9		Page *	2_ at 3_
Project Name (Fc. W	29484	Printed N		···	-	u.	2				Negh, MTBC	2.0							10000	
Acint Kurdal ma Project No. 2171.9 I	P.O. No.	Hu			natrix	-11		of Cor	nteiners sliver Typ		X, Neg	8-80							T(206056
Sample 10 / Description Containers for each sample may be considered on one line.)	Date	Time	G-Quit D-Composite	State	1 1	Others	West.	5	NS24	5095 AZ	STEX.	Ē				1		_	Res	narks / Cooler I.D
02314 MW-20	3/6/18	0859	G	X	1			6			3	3				1	-	+		
MW-20 Dup.	3/4/18	1000	1		\perp		4	1		_	1					\perp		_		
MW-21	315718	1359			1.			1	Ш			1			Ш.	1		-		
MW-22	3/5/18	1330						1			1	Ш			+	-	+		1	
Mw - 23	3/6/18	0830	1		1			Ц	Ш		1					_	_	+	+	
MW-24	3/5/18	1439	1	1	1			11			1	1				-		1	_	
MW-25	3/5/18	1504			\perp	Ш		11		1	1	1				4		+	-	
MW-26	3/5/18	1519										1						1		
MW-27	315/18	1539	1															_		
Dw-1	3/5/18	1810] [,							1	1								
m Around Time Required (Prior lab approval requires	od for expedited IAI	.) Sample Dis _i □ Return to 0		Yois.	oosai by	11.5				antificad Hammab		Skin init	ant I	Paison	⊒ Unk	10520	QC Red	quirems	ante (Speally	5
Hellinguished by Que QU	8	3/4	-	/-	5 22		1. Rec					Maria Maria					Date		Time	
Relinguished by		Date	710	_	ne Le	_	2. Rec	elved	by		7.00.7		_	-			Date		Typa	
Reunquished by				77:	ne	1	3. Řec	elved	by		-						Data		Time	- 1889 (B-CC)
4. Ralinquished by Date Tin				me	1	4. Lahu	urator	у гесе	ved by			7	211	t	_	3-6	18	Time	1522	
Note: All samples are retainuniess other arn			eceip	ot		- 1	LAB _, U Recelv			Xirola) ((Ves	No I	os Paci				22			

DISTRIBUTION: WHITE & YELLOW-Rolling to laboratory with Sample(s); PINK-Field/Client Copy

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Chain of Custody Record

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 81668

SHEALY ENVIRONMENTAL SERVICES, INC.

Epich ENVILONMENTAL SERVICES REPORT D'CONTROL KEL					4 5	. (CON	ı∈		Telap	hone M	3./E-n	מוי 873	- 8	20	Octobe No.					
Po Box 25	Zin Codo	Sampler's	Signat		2	1	(-	6	7		W.,	els (Att			ярас а ів			T		3 23	
SummEDVILLE SC Project Nema LFr.	29484 Windsor	Printed No.	tue	TE	e e	1	111	LES			New Mysk	3					ĺ			TC0605	
Project No. 2171.9 I	P.O. No.				atrix	1	- 1	No of C	cienco cuenco		2	100								CMN2	
Sample ID / Description (Containers for each sample may be constituted on one fine	Date)	Time	Cachingan	Special	Apasa A	Lington	ecsas:	ODW)	i i	State for	BIEX,	-			_				Pe	marks / Coole	r1.D.
02314 DW-2	3/5/18	1346	6	X	Ц	+	Ц	-	0	14	3	3			+	+	-	+	-		
pw-3	3/5/18	1425	11	1	H	1	Ц	_	\perp	\sqcup	- 1	+	_	-	_	-	-	+	-	-	
Ru 3	3/6/18	1010	Ш			1	H		1	11	Ш	11		_		-	-		-		_
Rw-3 Pup	3/6/18	1012	Ш	1	H	-	Н	_	4	11		1+	-		-	\dashv	-	+	+		
Sw-1	3/5/18	1545	1	4	11	_	Ш	_	4	1.	1	H	_	-		-+	+	+	-		
Sn-2	3/5/18	1643	1	4	\mathbb{H}	-			-	-	+	+	-	-	-	-		+	+-		
F8-1	3/5/18	1745	11	1	Н	+			1	1	-11	+	\vdash	\vdash	-	_	-	+	+		
F8-2	3/6/18	0800	1	1	Ц		Ш	Ц	1	\perp	1,	1				-	-	-	-		_
Tg-1		-		-	+1	+			2	+	1	-	-	-			_	+	-		
Turn Around Time Required (Prior lab approval re	quired for expedited TA	I.) Sample Dis	posal	St Die	ancel to	u (ab				/deniño		Skin Irri	lant L	J Poison	D Hel	knawn	OC Re	quireme	nts (Spec	150	
Standard U Rush (Specify) 1. Relinquished by	MO	816			me 52		-	ecsive									Date		Time		
2. Raiinquished by	900	Date Time				2. Received by												Time			
3. Relinquished by	t 1-	Date	Date Time				3. Received by								Time						
4. Relinquished by		Data	Data Time			4. L	abons	lory re	caived i	y	-	L	Hat	~		3-6	3-6-18 Time 1		1522		
Note: All samples are re unless other	atained for four v arrangements ar	veeks from i e made.	eceip	oř .					ONLY on ice		(Pes)	Na	ice Pac		Receipt	Temp	2.3	_'c			_

SHEALY ENVIRONMENTAL SERVICES, INC.

Sherily Environmental Services, Inc. Document Number: MP0018C-12 Page 1 of 1 Effective Date: 02/09/2016

Sample Receipt Checklist (SRC) Client: Terry Envl. Sucs. Cooler Inspected by/date: LKH / 3-6-18 Lot #: TCO6056 Means of receipt: SESI Client UPS FedEx Other: Yes No 1. Were custody seals present on the cooler? Yes No No No 2. If custody seals were present, were they intact and unbroken? nH Strip ID; Chlorine Strip ID: Cooler ID / Original temperature upon receipt / Derived (Corrected) temperature upon receipt: Method: ☑Temperature Blank ☐Against Bottles IR Gun ID: _ Method of coolant: Wet Ice 🔲 Ice Packs 🗀 Dry Ice 🗀 None 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one). Yes □ No NA 4. Is the commercial courier's packing slip attached to this form? Yes No 5. Were proper custody procedures (relinquished/received) followed? Yes I No 6. Were sample IDs listed on the COC? Yes No 7. Were sample IDs listed on all sample containers? Yes No 8. Was collection date & time listed on the COC? Yes No 9. Was collection date & time listed on all sample containers? Yes No 10. Did all container label information (ID, date, time) agree with the COC? 11. Were tests to be performed listed on the COC? Yes No 12. Did all samples arrive in the proper containers for each test and/or in good condition Yes No (unbroken, lids on, etc.)? □ No 13. Was adequate sample volume available? 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first? Yes □ Na Yes No 15. Were any samples containers missing/excess (circle one) samples Not listed on COC? 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in ₽ Yes □ No □ NA any of the VOA vials? NA 17. Were all DRO/metals/nutrient samples received at a pH of < 2? Yes □ No □ NA 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? Yes Were all applicable NH√LKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual ☐ Yes □ No ZINA 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) ☐ No Yes correctly transcribed from the COC into the comment section in LIMS? 1 No 21. Was the quote number used taken from the container label? Yes Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) were received incorrectly preserved and were adjusted accordingly Sample(s) in sample receiving with (II₂SO₄, IINO₃, IICI, NaOII) using SR # Time of perservation 001(a) 003(1) 608(2) 011(1) were received with bubbles >6 mm in diameter. Sample(s) were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na₂S₂O₃) with Shealy ID: 3-6-18 SR barcode labels applied by: Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Terry Environmental Services, Inc.

222 Varnfield Drive Suite F Summerville, SC 29483 Attention: Kelly Cone

Project Name: Maruti Kundal (Fr. Windsor Mart)

Project Number: 2171.9l Lot Number: **TC06054**

Date Completed:03/09/2018

03/14/2018 11:26 AM Approved and released by:

KellyM Name

Project Manager: Kelly M. Nance





The electronic signature above is the equivalent of a handwritten signature.

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: TC06054

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 Terry Environmental Services, Inc.

Lot Number: TC06054

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314 WSW 1	Aqueous	03/06/2018 1220	03/06/2018
002	02314 WSW 1 Dup	Aqueous	03/06/2018 1222	03/06/2018
003	02314 FB-DW	Aqueous	03/06/2018 1205	03/06/2018
004	02314 TB-1	Aqueous	03/06/2018	03/06/2018

(4 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Detection Summary Terry Environmental Services, Inc.

Lot Number: TC06054

Sample Sample ID Matr	iΧ	Parameter	Method	Result	Q)	Units	Page
-----------------------	----	-----------	--------	--------	---	---	-------	------

(0 detections)

Description: 02314 WSW 1

Date Sampled:03/06/2018 1220 Date Received: 03/06/2018

Laboratory ID: TC06054-001 Matrix: Aqueous

				Compounds					
Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		rsis Date Analyst 2018 1040 JJG	Prep Date	e Batch 66374			
Parameter			CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Rı
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	1.0	0.40	ug/L	1
Ethanol		64-	17-5	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	8.0	ug/L	•
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.40	ug/L	
tert-Amyl alcohol (TAA)		75-8	85-4	8260B	ND	20	8.0	ug/L	
tert-Amyl methyl ether (TAME)		994-0	05-8	8260B	ND	10	0.42	ug/L	•
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND	20	8.0	ug/L	•
tert-Butyl formate (TBF)		762-	75-4	8260B	ND	5.0	2.0	ug/L	1
Surrogate	Q %I	Run 1	Accepta Limi						
1,2-Dichloroethane-d4		98	70-1						
Bromofluorobenzene		102	70-1						
Toluene-d8		100	70-1						
	Volati	le Orga	nic (Compounds	by GC/N	ИS			
Run Prep Method	Analytical Method			sis Date Analyst	Prep Date				
1 524.2	524.2	1	_	2018 2037 BWS		66466			
			CAS	Analytical					
Parameter			nber	Method	Result Q	LOQ	DL	Units	Ru
Benzene			43-2	524.2	ND	0.50	0.20	ug/L	1
1,2-Dichloroethane		107-0		524.2	ND	0.50	0.20	ug/L	1
Ethylbenzene		100-4		524.2	ND	0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-		524.2	ND	0.50	0.20	ug/L	1
Naphthalene			20-3	524.2	ND	0.50	0.20	ug/L	1
Toluene		108-8		524.2	ND	0.50	0.20	ug/L	1
Xylenes (total)		1330-	20-7	524.2	ND	0.50	0.20	ug/L	1
Surrogate	Q %I	Run 1 . Recovery	Accepta Limi						
Bromofluorobenzene		99	70-1	30					
1,2-Dichlorobenzene-d4		102	70-1	30					
	ED	1D 8. DE	RCD ∣	by Microextr	raction				
Run Prep Method	Analytical Method				Prep Date	e Batch			
1 504.1	504.1	1		2018 1518 DAL1		1111 66270			
			CAS	Analytical			<u> </u>		
Parameter			nber	Method	Result Q	LOQ	DL	Units	Ru
1,2-Dibromoethane (EDB)		106-9	93-4	504.1	ND	0.0094	0.0038	ug/L	1

LOQ = Limit of Quantitation E = Quantitation of compound exceeded the calibration range DL = Detection Limit B = Detected in the method blank ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and \ge DL$ H = Out of holding time

Shealy Environmental Services, Inc.

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

W = Reported on wet weight basis

Description: 02314 WSW 1

Date Sampled:03/06/2018 1220 Date Received: 03/06/2018 Laboratory ID: TC06054-001 Matrix: Aqueous

Surrogate Run 1 Acceptance
Q % Recovery 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

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $J = Estimated result < LOQ and <math>\geq DL$

Shealy Environmental Services, Inc.

Description: 02314 WSW 1 Dup Date Sampled:03/06/2018 1222 Date Received: 03/06/2018 Laboratory ID: TC06054-002 Matrix: Aqueous

Volatile Organic Compounds by GC/MS Analytical Method Dilution Analysis Date Analyst Prep Date Run Prep Method Batch 5030B 8260B 03/08/2018 1102 JJG 66374 1 CAS Analytical Number Result Q LOQ DL Units Parameter Method Run Diisopropyl ether (IPE) 108-20-3 8260B ND 1.0 0.40 ug/L 1 8260B ND 100 40 Ethanol 64-17-5 ug/L 1 3,3-Dimethyl-1-butanol 624-95-3 8260B ND 20 8.0 ug/L 1 Ethyl-tert-butyl ether (ETBE) 637-92-3 8260B ND1.0 0.40 ug/L 1 tert-Amyl alcohol (TAA) 75-85-4 8260B ND 20 8.0 ug/L 1 tert-Amyl methyl ether (TAME) 10 994-05-8 8260B ND 0.42 ug/L 1 tert-butyl alcohol (TBA) 75-65-0 8260B 20 8.0 ND ug/L 1 tert-Butyl formate (TBF) 762-75-4 8260B ND 5.0 2.0 ug/L 1 Run 1 Acceptance % Recovery Surrogate Q Limits 1,2-Dichloroethane-d4 98 70-130 Bromofluorobenzene 102 70-130 Toluene-d8 101 70-130 Volatile Organic Compounds by GC/MS

		VOIGE	io oi ge	anno oompounas i	35 00/11/10	
Run Pr	ep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	524.2	524.2	1	03/08/2018 2102 BWS		66466
				CAS Apalytical		

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND	0.50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND	0.50	0.20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND	0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND	0.50	0.20	ug/L	1
Naphthalene	91-20-3	524.2	ND	0.50	0.20	ug/L	1
Toluene	108-88-3	524.2	ND	0.50	0.20	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND	0.50	0.20	ug/L	1
	Run 1 Accept	ance					

Surrogate	Q %	Run 1 Recovery	Acceptance / Limits	
Bromofluorobenzene		102	70-130	
1,2-Dichlorobenzene-d4		100	70-130	

EDB & DBCP by Microextraction

Run Prep Meth 1 50	od 4.1	Analytical Method 504.1	Dilution 1	3			Batch 1111 66270			
				CAS	Analytical					
Parameter			Nun	nber	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoetha	ne (EDB)		106-9	93-4	504.1	ND	0.0097	0.0039	ug/L	1

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 WSW 1 Dup Date Sampled:03/06/2018 1222 Date Received: 03/06/2018 Laboratory ID: TC06054-002 Matrix: Aqueous

Surrogate Run 1 Acceptance Q % Recovery Limits

1,1,1,2-Tetrachloroethane 88 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time N = Recovery is out of criteria
W = Reported on wet weight basis

P = The RPD between two GC columns exceeds 40%

 $J = Estimated result < LOQ and <math>\geq DL$

Shealy Environmental Services, Inc.

Description: 02314 FB-DW

Date Sampled:03/06/2018 1205 Date Received: 03/06/2018

Laboratory ID: TC06054-003 Matrix: Aqueous

	Volati	le Orga	anic (Compounds	by GC/M	S			
Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		rsis Date Analyst 2018 1124 JJG	Prep Date	Batch 66374			
Parameter			CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)		108-	20-3	8260B	ND	1.0	0.40	ug/L	1
Ethanol		64-	17-5	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND	20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND	1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)		75-	85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND	10	0.42	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND	20	8.0	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND	5.0	2.0	ug/L	1
Curromete		Run 1	Accept						
Surrogate	Q % F	Recovery	Limi						
1,2-Dichloroethane-d4		99	70-1						
Bromofluorobenzene		104	70-1						
Toluene-d8		102	70-1	30					
	Volati	le Orga	anic (Compounds	by GC/M	<u>S</u>			
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep Date	Batch			
1 524.2	524.2	1	03/08/	2018 1858 BWS		66466			
			CAS	Analytical					
Parameter			nber	Method	Result Q	LOQ	DL	Units	Run
Benzene			43-2	524.2	ND	0.50	0.20	ug/L	1
1,2-Dichloroethane		107-		524.2	ND	0.50	0.20	ug/L	1
Ethylbenzene		100-		524.2	ND	0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	524.2	ND	0.50	0.20	ug/L	1
Naphthalene		91-	20-3	524.2	ND	0.50	0.20	ug/L	1
Toluene		108-	88-3	524.2	ND	0.50	0.20	ug/L	1
Xylenes (total)		1330-	20-7	524.2	ND	0.50	0.20	ug/L	1
Surrogate			Accept						
Bromofluorobenzene	Q % F	Recovery 108	Limi						
			70-1						
1,2-Dichlorobenzene-d4		99	70-1	30					
	ED	B & DI	ВСР	by Microextr	action				
Run Prep Method 1 504.1	Analytical Method 504.1		Analy		Prep Date 03/07/2018 1	Batch 111 66270			
Parameter			CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-		504.1	ND	0.0098	0.0039	ug/L	1
` '								•	

LOQ = Limit of Quantitation E = Quantitation of compound exceeded the calibration range DL = Detection Limit B = Detected in the method blank ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and \ge DL$ H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 FB-DW Date Sampled:03/06/2018 1205

Date Sampled: 03/06/2018 1205

Laboratory ID: TC06054-003 Matrix: Aqueous

Surrogate Run 1 Acceptance Q % Recovery Limits

1,1,1,2-Tetrachloroethane 100 57-137

LOQ = Limit of Quantitation

B = Det

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time N = Recovery is out of criteria
W = Reported on wet weight basis

P = The RPD between two GC columns exceeds 40%

 $J = Estimated result < LOQ and <math>\geq DL$

Shealy Environmental Services, Inc.

Description: 02314 TB-1 Date Sampled:03/06/2018 Date Received: 03/06/2018

Laboratory ID: TC06054-004

Matrix: Aqueous

Volatile Organic Compounds by GC/MS	S
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Run Prep Method 1 5030B	Analytical Method Dilution 8260B 1		rsis Date Analyst 2018 1146 JJG	Prep Date	Batch 66374			
		CAS	Analytical					
Parameter	Nu	nber	Method	Result Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108	20-3	8260B	ND	1.0	0.40	ug/L	1
Ethanol	64	17-5	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624	95-3	8260B	ND	20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637	92-3	8260B	ND	1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75	85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994	05-8	8260B	ND	10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75	65-0	8260B	ND	20	8.0	ug/L	1
tert-Butyl formate (TBF)	762	75-4	8260B	ND	5.0	2.0	ug/L	1
Surrogate	Run 1 Q % Recovery	Accepta Limi						
1,2-Dichloroethane-d4	101	70-1	30					
Bromofluorobenzene	103	70-1	30					
Toluene-d8	102	70-1	30					

Volatile Organic Compounds by GC/MS

Run Prep Method 1 524.2	Analytical Method 524.2		,	sis Date Analyst 018 1923 BWS	Prep Date	Batch 66466			
			CAS	Analytical					
Parameter		Num		Method	Result Q	LOQ	DL	Units	Run
Benzene		71-4	13-2	524.2	ND	0.50	0.20	ug/L	1
1,2-Dichloroethane		107-0	06-2	524.2	ND	0.50	0.20	ug/L	1
Ethylbenzene		100-4	1-4	524.2	ND	0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0)4-4	524.2	ND	0.50	0.20	ug/L	1
Naphthalene		91-2	20-3	524.2	ND	0.50	0.20	ug/L	1
Toluene		108-8	88-3	524.2	ND	0.50	0.20	ug/L	1
Xylenes (total)		1330-2	20-7	524.2	ND	0.50	0.20	ug/L	1
Surrogate	Q % F	Run 1 A Recovery	Accepta Limit						
Bromofluorobenzene		99	70-13	0					
1,2-Dichlorobenzene-d4		101	70-13	0					

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $J = Estimated result < LOQ and \ge DL$

Shealy Environmental Services, Inc.



Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66374-001 Batch: 66374 Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	Dil	L	oq	DL	Units	Analysis Date
Diisopropyl ether (IPE)	ND		1	1	.0	0.40	ug/L	03/08/2018 0956
Ethanol	ND		1	1	00	40	ug/L	03/08/2018 0956
3,3-Dimethyl-1-butanol	ND		1	2	0	8.0	ug/L	03/08/2018 0956
Ethyl-tert-butyl ether (ETBE)	ND		1	1	.0	0.40	ug/L	03/08/2018 0956
tert-Amyl alcohol (TAA)	ND		1	2	0	8.0	ug/L	03/08/2018 0956
tert-Amyl methyl ether (TAME)	ND		1	1	0	0.42	ug/L	03/08/2018 0956
tert-butyl alcohol (TBA)	ND		1	2	0	8.0	ug/L	03/08/2018 0956
tert-Butyl formate (TBF)	ND		1	5	.0	2.0	ug/L	03/08/2018 0956
Surrogate	Q % Rec	Ac:	ceptance Limit					
1,2-Dichloroethane-d4	98		70-130					
Bromofluorobenzene	99		70-130					
Toluene-d8	100		70-130					

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66374-002

Batch: 66374

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Dil	% Rec	% Rec Limit	Analysis Date
Diisopropyl ether (IPE)	50	46	1	92	70-130	03/08/2018 0858
Ethanol	5000	4600	1	92	60-140	03/08/2018 0858
3,3-Dimethyl-1-butanol	1000	840	1	84	60-140	03/08/2018 0858
Ethyl-tert-butyl ether (ETBE)	50	47	1	95	70-130	03/08/2018 0858
tert-Amyl alcohol (TAA)	1000	850	1	85	70-130	03/08/2018 0858
tert-Amyl methyl ether (TAME)	50	43	1	85	70-130	03/08/2018 0858
tert-butyl alcohol (TBA)	1000	880	1	88	70-130	03/08/2018 0858
tert-Butyl formate (TBF)	250	210	1	84	70-130	03/08/2018 0858
Surrogate	Q % Rec	Acceptance Limit				
1,2-Dichloroethane-d4	99	70-130				
Bromofluorobenzene	103	70-130				
Toluene-d8	102	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66466-001 Batch: 66466

Analytical Method: 524.2

Matrix: Aqueous Prep Method: 524.2

Parameter	Result	Q	Dil	LC	Q	DL	Units	Analysis Date
Benzene	ND		1	0.5	50	0.20	ug/L	03/08/2018 1725
1,2-Dichloroethane	ND		1	0.5	50	0.20	ug/L	03/08/2018 1725
Ethylbenzene	ND		1	0.5	50	0.20	ug/L	03/08/2018 1725
Methyl tertiary butyl ether (MTBE)	ND		1	0.5	50	0.20	ug/L	03/08/2018 1725
Naphthalene	ND		1	0.5	50	0.20	ug/L	03/08/2018 1725
Toluene	ND		1	0.5	50	0.20	ug/L	03/08/2018 1725
Xylenes (total)	ND		1	0.5	50	0.20	ug/L	03/08/2018 1725
Surrogate	Q % Re	Ac	ceptance Limit					
Bromofluorobenzene	104		70-130					
1,2-Dichlorobenzene-d4	96		70-130					

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66466-002

Batch: 66466 Analytical Method: 524.2 Matrix: Aqueous Prep Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	! Dil	% Rec	% Rec Limit	Analysis Date
Benzene	5.0	4.9	1	98	70-130	03/08/2018 1623
1,2-Dichloroethane	5.0	5.1	1	102	70-130	03/08/2018 1623
Ethylbenzene	5.0	5.1	1	101	70-130	03/08/2018 1623
Methyl tertiary butyl ether (MTBE)	5.0	4.8	1	96	70-130	03/08/2018 1623
Naphthalene	5.0	5.0	1	99	70-130	03/08/2018 1623
Toluene	5.0	5.2	1	104	70-130	03/08/2018 1623
Xylenes (total)	10	11	1	107	70-130	03/08/2018 1623
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	103	70-130		_		_
1,2-Dichlorobenzene-d4	101	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and <math>\geq DL$

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - MB

Sample ID: TQ66270-001 Batch: 66270

Analytical Method: 504.1

Matrix: Aqueous Prep Method: 504.1

Prep Date: 03/07/2018 1111

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.010	0.0040	ug/L	03/07/2018 1342
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	105	57-137				

EDB & DBCP by Microextraction - LCS

Sample ID: TQ66270-002

Batch: 66270

Matrix: Aqueous Prep Method: 504.1

Prep Date: 03/07/2018 1111

Analytical Method: 504.1

Spike % Rec Amount Result Parameter (ug/L) (ug/L) Dil % Rec Limit Analysis Date 1,2-Dibromoethane (EDB) 0.25 0.24 94 70-130 03/07/2018 1354 Acceptance Surrogate Q % Rec Limit 57-137 1,1,1,2-Tetrachloroethane 100

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and <math>\geq DL$

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

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

Shealy Environmental Services, Inc.

Chain of Custody and Miscellaneous Documents

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		EAI

Chain of Custody Record

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 81669

Client		Report to	Contac	1/			,	200				hone f			63	20.0			Guete	No.
FERRY ENVIRONMENTAL ANTOSS PO BOX 25	Stances	Sampler	s Signal	ara	77	4 1		C	-						- 82 ne aperoc		ed)		Page	1 0 1
Summerville State Summerville SC Project Name (Fr. V	20484 1178501	Printed N	Lid kino UN	-5	<u> </u>	es M		× (STEX MEN, MARC	TOKY BONNEST	A I	11:17						TC06054
MARCUTI KINDAL M Project No. 2171.9 I	RO. No.	111			strtx	1		No of C	or faire vestive	ня Турс	3	N-49	1	200						Кжг5
Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grander Cachenana Cachenana	Spire	Age Age Age Age Age Age Age Age Age Age	DAYSES	P2504	AVC)	MON	SGSS PG	-	-	1	502				_	P	emarks / Cooler I.D.
2314 WSW1	316/18	1220	G	X			Ц	6	1	Ц	3	3		3	_		1		\vdash	
1 WSW 1 Dup	3/14/18	1222	1	1	Н				4	1	+	1	1.	1	-	-	-	+	+-	
FB-DW	376/18	1205	1	1	1	+	Н		1	1	1	1	+	+	+	-	+	-	+-	
TB-1				1					2.			ľ	-							
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						1			1		1		1							
	+	-	+		+	+	+	H	1	\parallel	+	+		+	+	+-				
Turn Around Time Required (Frier lab approval requi	red for expedited IA	I.) Sample Di	spossi	Cinier	normal h	ne I sh	Post Von	sible H	azard	Identiik	noites	Skin in	Stant:	□ Pui	son I	Unknown		Hequirem	enis (Spe	uiy)
Standard Trush (Specify) 1. Relifiquished by 1	-		0/18	173	700 52		1	laceive									Date		Time	
2. Relinguished by		Oate	-110	$\overline{}$	ne ne		2. 6	lecelvi	o by								Date		71me	
3. Helinquished by		Date		Tiv	me		3. 6	Receive	nd by	_							Date		Time	
4. Relinquished by		Date		TN	ms		4. L	abore	lory re	raniwad I	Dy		- ;	L.	Hat	Te .	Oate 3~	6-18	Time	1522
Note: All samples are reta unless other an	nined for four v	weeks from re made.	receip	nt		700		9 USE			(Ves)	No	les i		-	pt Temp	2.1		TB	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Shariy Environmental Services, Inc. Document Number: ME0018C-12

Page 1 of : Effective Date: 02/09/2018

Sample Receipt Checklist (SRC)	te: 02/0
Client: Terry Envico. Cooler Inspected by/date: CBW/ 3.6.18 Lot#: TCO6054	
Means of receipt: SESI Client UPS FedEx Other	_
Yes No 1. Were custody seals present on the cooler?	
Yes No NA 2. If custody seals were present, were they intact and unbroken?	
pri strip ID:	100
Cooler ID / Original temperature upon receipt / Derived (Corrected) temperature upon receipt:	
Method: 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Method: ☐ Temperature Blank ☐ Against Bottles IR Gun ID; ☐ IR Gun Correction Factor: ☐ °C Method of coolant: ☐ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None	
Method of coolant: Wet Ice Ice Packs Dry Ice None	
Yes No No NA 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?	
PM was Notified by: phone / email / face-to-face (circle one). Yes No NA 4. Is the commercial courier's packing stip attached to this form?	
Yes No 5. Were proper custody procedures (relinquished/received) followed?	
Yes No 6. Were sample IDs listed on the COC?	
Yes No 7. Were sample IDs listed on all sample containers?	
Yes No 8. Was collection date & time listed on the COC2	
Yes No 9. Was collection date & time listed on all sample containers?	
Yes No 10. Did all container label information (ID, date, time) agree with the COC?	
Yes No II. Were tests to be performed listed on the COC?	
Yes No 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? EDB SO4. M + M +	
Yes No 13. Was adequate sample volume available?	
and a sample voiding available?	
1 2 the samples received within 22 the notione time or 48 hours, whichever and 6 and	
The state of the s	
Yes No No NA 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6mm in diameter	ar) in
Yes No NA 17. Were all DRO/metals/nutrient samples received at a pH of < 2?	$\overline{}$
The Annual Property of the Pro	
Yes 1 No NA NA an applicable Net TENVCyanide/phenol/625 (< 0.5mg/L) samples free of residual	
catoriner	Ä
Yes No No No No No No No No No No No No No	\neg
correctly transcribed from the COC into the comment section in LIMS?	
the quote number used taken from the container label?	
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) were received incorrectly preserved and were adjusted popular	da.
	, y
Time of perservation	ŀ
Sample(s)	_
Samples(s) were received with bubbles >6 mm in diameter.	1
were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID:	
The second of the social modernate (Na ₂ S ₂ O ₃) with Shealy ID:	0
SR barcode labels applied by: CBC Date: \$3.6.18	
Comments: (60 3 678	
* C	
Samples them non-colorinated source.	
	_
	_

APPENDIX C

Tax Map (Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms (Not Applicable)

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifest



Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Nun		4 -
2. Generator's Name and Mailing Address: Cherum, SC		Phone ()	
Windsor Mart		PO#:2	171,9 I	
3. Agent of Generator and Mailing Address:	(25	Phone (%)	43 18 73-	1200
Terry Environmental Services summer 2948	ille,5C	₽ 0 #:		
4. Transporter Company Name:		Phone ()	
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:	М	ailing Addres	ss:	Phone: (843) 797-3111
ÚS Water Recovery 511 Old Mt. Holly Rd.	US	Water Recov	very	Fax: (843) 797-1884
Goose Creek, SC 29445		e Creek, SC 2		
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons	*A *G	Tank Number
8. U.S. DOT Description	No.	ainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water			and	95
		. 1	1	1.50
		·		
The state of the state of the state of the state of	Attain.	1 ,		Liller of the total
		á		
9. Generator's Certification: I hereby declare that the contents of this co	nsignment are	not hazardous	by definition or	listing and are fully and accurately described
above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Fo	e laws of the St	ate of South C	arolina. I furthe	r certify that the contents of this consignment
Printed/Typed Name: Hun-tir MILS Signature:	10te	and	5	Date: 3/6/16
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Jones	mutas	- Am		Date: 3-22-18
	1 year	fore	- Marie and Paragraph	LV
11. Discrepancy Indication space:	1	V		
Discrepancy Indication space: 12. Facility Owner or Operator: Certification of Receipt of Materials	1	,		
				Date 2 - 12 - 16
12. Facility Owner or Operator: Certification of Receipt of Materials			>	Date 3-02-18

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Maruti Kundal (Former Windsor Mart)</u>

UST Permit #02314 - TERRY Project #2171.9I

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,	X		
4	telephone number, and certification number provided?	Λ		
5	Is the name, address, telephone number, and certification number of the well			X
3	driller that installed borings/monitoring wells provided?			A
6	Is the name, address, telephone number, and certification number of the certified	X		
0	laboratory(ies) performing analytical analyses provided?	Λ		
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	Header mineral terms have described?	v		Sect.
12	Has the primary soil type been described?	X		3
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
10	Have the monitoring wells been labeled in accordance with the UST QAPP	37		
19	guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
2.1	Have the groundwater sampling dates and groundwater measurements been	37		
21	provided?	X		
22	Has the purging methodology been detailed?	X		
22	Has the volume of water purged from each well been provided along with			37
23	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
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
20	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk			V
30	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		

Item #	Item	Yes	No	N/A
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 Fig 4		X Fig 3
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



JACKSON OIL COMPANY INC 755 SOUTH 4TH STREET HARTSVILLE SC 29550 APR 1 2 **2018**



Re: Site Specific Work Plan (SSWP) Request

MARUTI KUNDAL DBA COUNTRY CUPBOARD 7, 820 Hwy. 9, Cheraw, SC

UST Permit #02314

Release Reported December 06, 1991

Monitoring Report Received August 02, 2018

Chesterfield County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Blue Ridge Environmental Services Inc., as your contractor. The next appropriate scope of work at the site is the installation of three (3) recovery wells and two (2) Aggressive Fluid Vapor Recovery (AFVR) events.

Two recovery wells will be installed in proximity to the current UST basin. They will be 4 inches in diameter and installed to a depth of 30 feet. These wells will be screened from 10 feet to 30 feet. After completion of well installation activities, two 96-hr AFVR events should be conducted at the site with the first event using RW-1, RW-2, and RW-3 and the second event using the newly installed recovery wells. All well installation and AFVR activities at the site should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 3.1 and must be conducted in compliance with all applicable regulations. A copy of the Agency QAPP Revision 3.1 for the UST Management Division is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Please have your contractor complete and submit the Site Specific Work Plan (SSWP) and Cost Proposal within thirty (30) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial preapproval from the Agency must be issued before work begins.

On all correspondence concerning this site, please reference **UST Permit #02314.** If there are any questions concerning this project, please contact me at (803) 898-0655 or by email at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist

Corrective Action and Quality Assurance Section

UST Management Division

Bureau of Land and Waste Management

cc:

Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484

Technical File



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

WST	ŀ
APR 202018	
Constant	/

To. Quincy Hoffer		(SCDH	EC Project Manager)
From Kelly Cone		(Contract	ctor Project Manager)
Contractor TERRY Environmental		actor Certification Number. UCC-0223	
Facility Name Maruti Kundal (Form	ner Windsor Mart)	UST Permit #: 023	14
Facility Address 820 Chesterfield			
Responsible Party. Jackson Oil Co	ompany, Inc	Phone. <u>843-537-70</u>	80 /0 3/
RP Address 755 South 4th Street,			10 76
Property Owner (if different): n/	a		Cour
Property Owner Address: n/a		-0 -10	<u>VETI</u>
Current Use of Property Gas St	-	r Cupboard)	
Scope of Work (Please check	• • • •		
☐ IGWA ☐ Tier		Groundwater Sampling	☐ GAC
☐ Tier I ☐ Mon	itoring Well Installation	Other Recovery Well Install & Two	AFVRS
Analyses (Please check all tha	t apply)		
Groundwater/Surface Water.		Прор	7.84.44
BTEXNMDCA (8260B)	☐ Lead ☐ 8 RCRA Metals	☐ BOD ☐] Methane] Ethanol
☐ Oxygenates (8260B) ☐ EDB (8011)	☐ TPH	☐ Nitrate ☐ Sulfate ☐	Dissolved Iron
PAH (8270D)	□ pH	Other	1 Dissolved from
Drinking Water Supply Wells	_ pii		
BTEXNMDCA (524.2)	☐ Mecury (200.8 245	5.1 or 245.2)	
Oxygenates & Ethanol (8260			
Soil.	,	•	
☐ BTEXNM ☐ Lead	RCRA Metals	☐ TPH-DRO (3550B/8015B)	☐ Grain Size
☐ P AH	Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	□ TOC
Air [.]			
BTEXN			
		matrix that are expected to be collect	
Soil	Water Supply W		Field Blank
Monitoring Wells	Surface Water	Duplicate	Trip Blank
Field Screening Methodology	, ,		
	pleted depth for each point, and	d include their proposed locations on	the attached map.
	·	timated Footage:	•
		timated Footage:	
Field Screening Methodology: _	•		
Permanent Monitoring Wells			
1	pleted depth for each well, and	include their proposed locations on t	he attached map.
	•	d Footage:	•
# of deep wells	Estimate	ed Footage [.]	feet per point
# of recovery wells: 2	Estimate	d Footage. 60' (2 × 30") r and screened (10'-30')	feet per point
Comments, if warranted. The re-	covery wells will be 4" in diameter	r and screened (10'-30')	

UST Permit #: 02314	Facility Name:	Maruti Kundal (Former Windsor Mart)					
Implementation Schedule (Number of Field Work Start-Up: 14-30 days Report Submittal 45-60 days	f calendar day	s from approval) Field Work Completion 30-45 days # of Copies Provided to Property Owners: RP					
Aquifer Characterization Pump Test. ☐ Slug Test ☐ (Chec	k one and prov	vide explanation below for choice)					
Investigation Derived Waste Disposa Soil. 2	Tons	Purge Water 75	Gallons				
Drilling Fluids: 55	Gallons	Free-Phase Product	Gallons				
event, etc. Per SCDHEC request, two 4-inch recovery wells will	vells to be abar	ndoned/repaired, well pads/bolts/caps to replace, deta kimity to the current UST Basin. A subsequent survey and two 96- hour d the second is requested on the two newly proposed recovery wells (R	AFVR Events				
Note Based on historical AFVR data effluent recov	ery has been in the	40,000 gallon range for a 96-hour event					
Name of Laboratory:	P? (Yes/No)	If no, indicate laboratory information below.					
SCLLR Certification Number.							
Other variations from ACQAP. Pla	ease describe l	below.					
Attachments	antion of the LIC						
Prepare a site base map. This must include the following: North Arrow Location of property lines Location of buildings Previous soil sampling location Previous monitoring well location Proposed soil boring locations	Proposed Legend w Streets or Location ons Location	SGS topographic map showing the site location. accurately scaled, but does not need to be surveyed. d monitoring well locations vith facility name and address, UST permit number, ar r highways (indicate names and numbers) of all present and former ASTs and USTs of all potential receptors	·				
3. Assessment Component Cost A	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

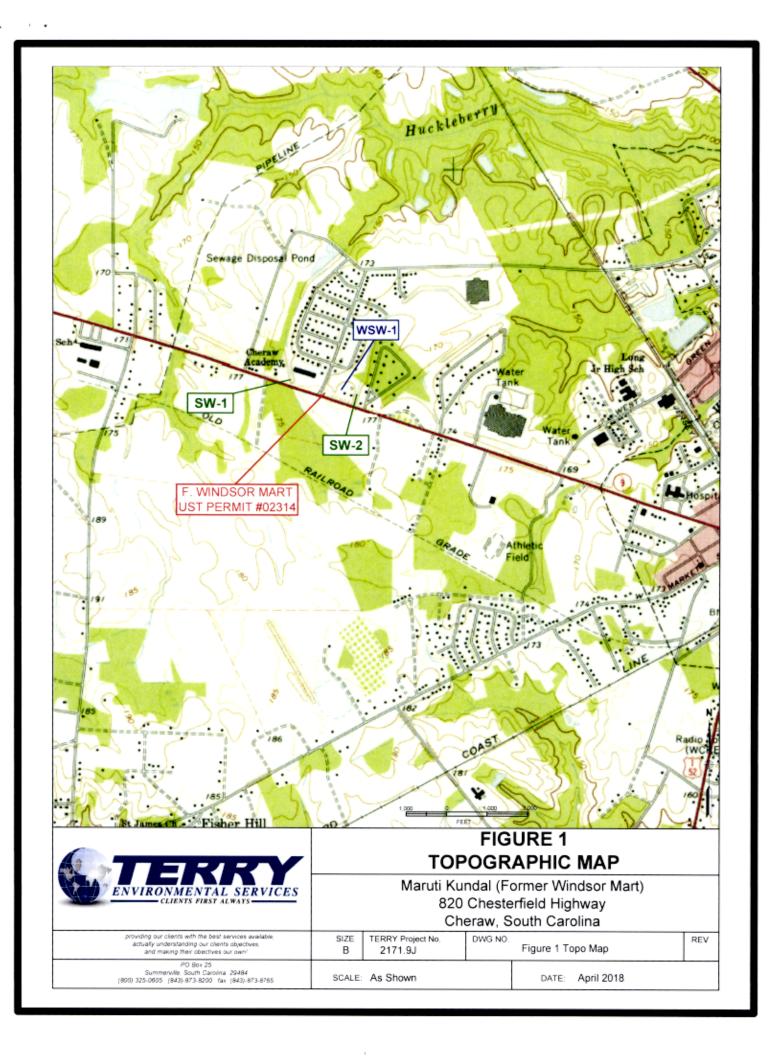
June 15, 2017

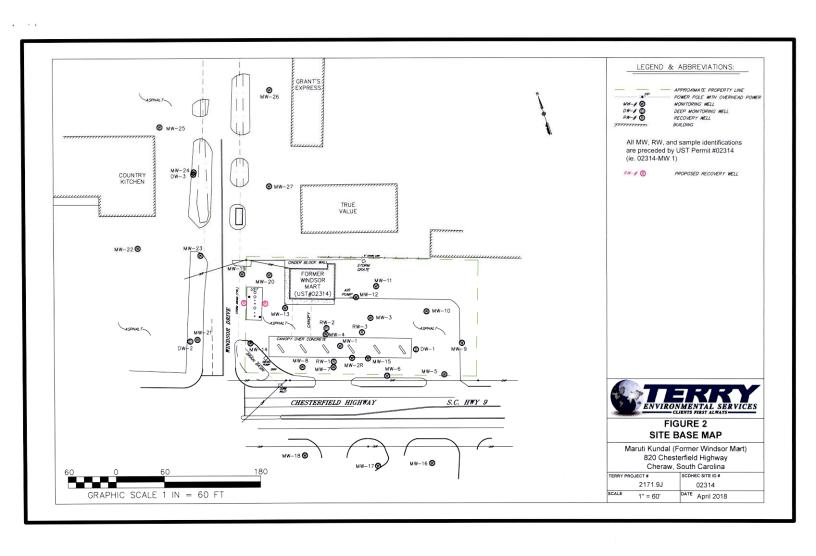
Facility Name: Maruti Kundal (Former Windsor	Mart)			
UST Permit #: 02314	Cost Ag	reement #:	Proposal	
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation				
A1. Site-specific Work Plan	1	each	\$150.00	\$150.00
B1. Tax Map		each	\$70.00	\$0.00
C1 Tier II or Comp. Plan /QAPP Appendix B		each	\$250 00	\$0.00
2. A1. Receptor Survey *		each	\$551.00	\$0.00
3 Survey (500 ft x 500 ft)		_		
A1 Comprehensive Survey		each	\$1,040.00	\$0.00
B Subsurface Geophysical Survey				
1B < 10 meters below grade		each	\$1,300.00	\$0.00
2B. > 10 meters below grade		each	\$2,310.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00	\$0.00
4 Mob/Demob			44 000 00	
A1. Equipment	1	each	\$1,020.00	\$1,020.00
B1. Personnel	1	each	\$423.00	\$423.00
C1. Adverse Terrain Vehicle		each	\$500.00	\$0.00
5. A1. Soil Borings (hand auger)*	4-14	foot	\$5 00	\$0.00
6. Soil Borings (requiring equipment, push technolo		ammia ata \t		
Field Screening (including water sample, soil san	npie, soii gas : i		1 045.00	
AA Standard		per foot	\$15.00	\$0.00
C1. Fractured Rock 7. A1. Soil Leachability Model		per foot	\$20.20	\$0.00
8. Abandonment (per foot)*		each	\$60 00	\$0.00
A1. 2" diameter or less		nor foot	\$3.10	\$0.00
B1. Greater than 2" to 6" diameter		per foot per foot	\$3.10 \$4.50	\$0.00
		per foot	\$4.50 \$15.00	\$0.00
C1. Dug/Bored well (up to 6 feet diameter) 9 Well Installation (per foot)*		perioot	\$15.00	\$0.00
A1. Water Table (hand augered)		per foot	\$10.60	\$0.00
B1. Water Table (Italia augereu)		per foot	\$38.00	\$0.00
CC. Telescoping		per foot	\$50.00	\$0.00
DD. Rock Drilling		per foot	\$58.00	\$0.00
E1. 2" Rock Coring		per foot	\$30.90	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$33.40	\$0.00
HH. Recovery Well (4" diameter)	60	per foot	\$45.00	\$2,700.00
II. Pushed Pre-packed screen (1.25" dia)	"	per foot	\$15.00	\$0.00
J1. Rotosonic (2" diameter)		per foot	\$44.00	\$0.00
K. Re-develop Existing Well		per foot	\$11.00	\$0.00
10 Groundwater Sample Collection / Gauge Depth	to Water or Pi	•	\$150	+000
A1. Groundwater Purge	l	per well/receptor	\$60.00	\$0.00
B1 Air or Vapors	[per receptor	\$12.00	\$0.00
C1 Water Supply]	per well/receptor	\$22.00	\$0.00
D1 Groundwater (No Purge or Duplicate)		per well/receptor	\$28.00	\$0.00
E1 Gauge Well only		per well	\$7.00	\$0.00
F1. Sample Below Product	[per well	\$12.00	\$0.00
G1. Passive Diffusion Bag		each	\$26.00	\$0.00
H1. Field Blank	[each	\$24.60	\$0.00
I Groundwater (low flow purge)		per well/receptor	\$91.00	\$0.00

11. Laboratory Analyses-Groundwater		İ	I 1	1	
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	\$122 00		\$0.00
AA1. Lead, Filtered	1	per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A)		per sample	\$153.60	l	\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0 00
D1. PAH's		per sample	\$60 60		\$0.00
E1 Lead	1	per sample	\$16 00		\$0.00
F1 EDB by EPA 8011		per sample	\$45.20		\$0.00
FF1. EDB by EPA Method 8011 Rush	1	per sample	\$68 20		\$0.00
G1 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41 00		\$0.00
II. pH		per sample	\$5 20		\$0.00
J1. BOD	1	per sample	\$20 00		\$0.00
PP. Ethanol	1	per sample	\$14 80		\$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)		per sample	\$124.05		\$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	\$91.75		\$0.00
N EDB (504 1)		per sample	\$79.50		\$0.00
O. RCRA METALS (200.8)		per sample	\$100 00		\$0.00
11 Analyses-Soil	1			П	
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1 PAH's	1	per sample	\$64.04		\$0.00
S1 8 RCRA Metals	1	per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)	Í	per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00
X1 Total Organic Carbon		per sample	\$30 60		\$0.00
11. Analyses-Air					
Y1 BTEX + Naphthalene		per sample	\$216 00		\$0.00
11. Analyses-Free Phase Product					
Z1 Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*	ı.	per hour	\$23.00		\$0.00
B1. Slug Test*		per test	\$191.00		\$0.00
C1 Fractured Rock		per test	\$100 00	Ш	\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38 00	Ш	\$0.00
14. Fate/Transport Modeling					
A1 Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00	Ц	\$0.00
15 Risk Evaluation					
A. Tier I Risk Evaluation		each	\$300.00	Ш	\$0.00
B1. Tier II Risk Evaluation	 	each	\$100.00	Н	\$0.00
16 A1 Subsequent Survey*	1	each	\$260.00	Н	\$260.00
17 Disposal (gallons or tons)*	l				
AA. Wastewater	75	gallon	\$0.56		\$42 00
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal	2	ton	\$60.00		\$120.00
D1. Drilling fluids	55	gallon	\$0.42	┝╌┼	\$23.10
18 Miscellaneous (attach receipts)	1				**
i	1	each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)	+	each	\$0.00	⊢┼	\$0.00
21. IGWA (Use DHEC 3666 form)	-	standard		Н	\$0.00
22. Corrective Action (Use DHEC 3667 form)	+	standard		$\vdash \vdash$	\$0.00
22. STIESTIFE MOUDIN (USE DITIES 3007 TOTAL)		PFP Bid		Ш	\$0.00

23 Aggressive Fluid & Vapor Recovery (AFVR)				
A1 8-hour Event*		each	\$1,375.00	\$0.00
AA 24-hour Event*		each	\$3,825 00	\$0.00
A3. 48-hour Event*		each	\$6,265 00	\$0.00
A4. 96-hour Event*	2	each	\$12,567 50	\$25,135 00
C1. Off-gas Treatment 8 hour		per event	\$122 50	\$0 00
C2. Off-gas Treatment 24 hour		per event	\$241.50	\$0.00
C3 Off-gas Treatment 48 hour		per event	\$327.00	\$0.00
C4 Off-gas Treatment 96 hour	2	per event	\$780 00	\$1,560 00
D Site Reconnaissance	1	each	\$203.25	\$203.25
E1. Additional Hook-ups		each	\$25.75	\$0.00
F1 Effluent Disposal	80,000	gallon	\$0.44	\$35,200.00
G. AFVR Mobilization/Demobilization	2	each	\$391.50	\$783 00
24. Granulated Activated Carbon (GAC) filter system	n installation	& service:		
A1 New GAC System Installation*		each	\$1,900.00	\$0.00
BB Refurbished GAC Sys Install*		each	\$900.00	\$0.00
C1. Filter replacement/removal*		each	\$350.00	\$0.00
DD. GAC System removal, cleaning, & refurbishmen	it*	each	\$275.00	\$0.00
E1 GAC System housing*		each	\$250 00	\$0.00
F. In-line particulate filter		each	\$150.00	\$0.00
G1 Additional piping & fittings		foot	\$1.50	\$0.00
25. Well Repair	-			
A1 Additional Copies of the Report Delivered	*	each	\$50.00	\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00	\$0.00
C1. Repair 4x4 MW pad*		each	\$88 00	\$0.00
D1. Repair well vault*		each	\$118 00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15 00	\$0.00
H1. Replace/Repair stick-up*		each	\$134.00	\$0.00
II Convert Flush-mount to Stick-up*		each	\$150.00	\$0.00
J1 Convert Stick-up to Flush-mount*		each	\$130.00	\$0.00
K1 Replace missing/illegible well ID plate		each	\$12.00	\$0.00
Report Prep & Project Coordination	12%	percent	\$67,619.35	\$8,114.32
TOTAL			_	\$75,733.67

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









JACKSON OIL COMPANY INC 755 S 4TH STREET HARTSVILLE SC 29550

MAY 2 2 2018

Re:

Recovery Well Installation and AFVR Directive

Maruti Kundal DBA Country Cupboard 7, 820 Chesterfield Hwy., Cheraw, SC UST Permit #02314; CA #57075; MWA#: UMW-27038 Release Reported December 6, 1991

SSWP Received April 20, 2018

Chesterfield County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Terry Environmental Services, Inc., as your contractor. The next appropriate scope of work at this site is the installation of two recovery wells and two AFVR events. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 3.1, and must be conducted in compliance with all applicable regulations. A copy of the DHEC's QAPP Rev. 3.1, for the UST Management Division is available at http://www.scdhec.gov/environment/LW/UST/ReleaseAssessmentCleanup/QualityAssurance/.

Cost agreement #57075 has been approved for the amount shown on the enclosed cost agreement form for the installation of two recovery wells and 96-hour AFVR event. Recovery well installation activities should begin immediately upon receipt of this letter. Please note the following changes to the cost agreement:

Item 4 B1 – 1 Personnel Mob has been added to the cost agreement.

The two recovery wells will be installed in the proposed locations on the enclosed figure. They will be 4 inches in diameter and installed to a depth of 30 feet. These wells will be screened from 10 feet to 30 feet.

After the installation of the recovery wells, two 96-hr AFVR events should be conducted at the site on the newly installed recovery wells. The first event will be conducted on RW-1, RW-2, and RW-3. The second event will be conducted on the newly installed recovery wells. The stingers shall be lowered at six inch intervals starting at the water table interface to the target depth of 25 feet. After the target depth has been reached, the stingers should be placed as to maximize FP and/or vapor recovery.

The AFVR and invoice are due within 60 days from the date the AFVR is concluded. The report submitted at the completion of these activities should include the required information outlined in the QAPP. It should also contain SCDHEC Form 1903 and monitoring well logs for the newly installed recovery wells. Please note that all applicable South Carolina certification requirements apply to the services and report preparation.

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

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

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

On all correspondence regarding this site, please reference UST Permit #02314 and CA #57075. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0655 or by e-mail at hoffergm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist

Corrective Action and Quality Assurance Section

UST Management Division

Bureau of Land and Waste Management

enc: Cost Agreement

Monitoring Well Approval Letter Recovery Well Proposed Locations

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc)

Technical File (w/enc)



Monitoring Well Approval

Approval is hereby granted to: Terry Environmental Services, Inc.

(on behalf of): Jackson Oil Company, Inc.

Facility: Maruti Kundal DBA Country Cupboard, 820 Chesterfield Hwy.,

Cheraw, SC

UST Permit Number: 02314

County: Chesterfield

This approval is for the installation of two recovery wells. The recovery wells are to be installed in the approved locations. Recovery wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

<u>Please note that R.61-71 requires the following:</u>

- 1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
- 2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
- 3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
- 4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
- 5. If any of the information provided to the Division changes, notification to Quincy Hoffer the project manager (tel: (803) 898-0655 or e-mail: hofferqm@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. Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

Date of Issuance: May 08, 2018

Quincy Hoffer, Hydrogeologist

Corrective Action and Quality Assurance Section Underground Storage Tank Management Division

Bureau of Land and Waste Management

Approval #: UMW-27038

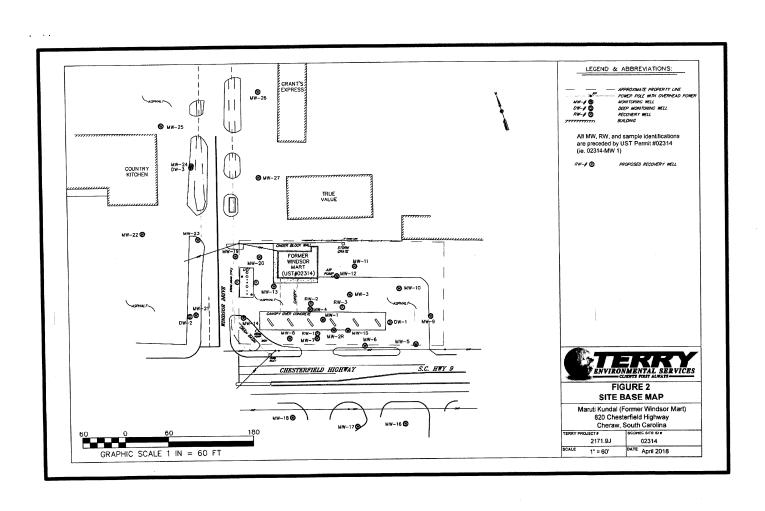
Approved Cost Agreement

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

57075

HOFFERQM PO Number:

Task / Description Categories Qty / Pct Item Description **Unit Price** <u>Amount</u> 01 PLAN A1 SITE SPECIFIC WORK PLAN 1.0000 \$150.000 150.00 04 MOB/DEMOB A1 EQUIPMENT 1.0000 \$1,020.000 1,020.00 **B1 PERSONNEL** 2.0000 \$423.000 846.00 09 WELL INSTALLATION HH RECOVERY WELL (4 INCH DIA) 60.0000 \$45.000 2,700.00 16 SUBSEQUENT SURVEY A1 SUBSEQUENT SURVEY 1.0000 \$260.000 260.00 17 DISPOSAL AA WASTEWATER 75.0000 \$0.560 42.00 C1 SOIL TREATMENT DISPOSAL 2.0000 \$60.000 120.00 D1 DRILLING FLUIDS 55.0000 \$0.420 23.10 19 RPT/PROJECT MNGT & COORDINATIO PRT REPORT PREPARATION 0.1200 \$68,042.350 8,165.08 23 EFR A4 96 HOUR EVENT 2.0000 \$12,567.500 25,135.00 C4 OFF GAS TREATMENT 96 HOUR 2.0000 \$780.000 1,560.00 D SITE RECONNAISSANCE 1.0000 \$203.250 203.25 F1 EFFLUENT DISPOSAL 0000.000,08 \$0.440 35,200.00 G AFVR EQUIPMENT MOB 2.0000 \$391.500 783.00





CERTIFIED MAIL 9214 8969 0099 9790 1411 9626 94

CHARLES JACKSON
JACKSON OIL CO INC
755 S 4TH ST
HARTSVILLE SC 29550

JUN 0 7 2018



Re:

Corrective Action Options

Maruti Kundal DBA Country Cupboard 7, 820 Chesterfield Hwy., Cheraw, SC

UST Permit #02314

Release reported December 6, 1991 Monitoring Report received April 2, 2018

Chesterfield County

Dear Mr. Jackson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) reviewed the above-referenced report submitted by Terry Environmental Services, Inc. on your behalf. This report, combined with site history, indicates active corrective action is necessary at the site to mitigate petroleum impact and ensure that there is no detrimental exposure to human health or the environment. While you, as the owner/operator, are ultimately responsible for cleanup actions taken in response to this release, funds from the State Underground Environmental Response Bank (SUPERB) Account and SUPERB Financial Responsibility Fund (SFRF) shall provide combined coverage for site rehabilitation and third party claims not to exceed one million dollars.

The SUPERB Site Rehabilitation and Fund Access Regulations R.61-98 require the UST owner/operator to develop and implement a reasonable, cost-effective corrective action to be performed by a DHEC certified site rehabilitation contractor. The selected technology must reduce the petroleum chemicals of concern concentrations to site-specific target levels that are determined by DHEC. As the owner/operator for the above-referenced release, you may choose one of two options discussed below to proceed toward meeting this requirement.

Option 1: Owner/Operator Lead

You may continue to use your existing DHEC Certified Site Rehabilitation Contractor of choice or select another contractor from the list found

at http://www.scdhec.gov/Environment/LW/UST/VendorsRecyclersContractors/CertifiedContractors/ to perform the corrective action. To assist you in determining the clean-up technology, time frame, clean-up levels, and associated costs, DHEC will develop and provide you copies of a technical specifications package to send to DHEC certified contractors you may wish to utilize for this corrective action.

The maximum amount of allowable costs for the active correction action work that may be reimbursed by the SUPERB fund will be determined through a solicitation process. DHEC will post the technical specifications package for the active corrective action on the DHEC website (http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/CorrectiveActionSection/) and will solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities, a bi-weekly state government publication. This process is intended to ensure an adequate solicitation response is obtained so that a fair and competitive price for the work can be established. The low bid will determine the maximum amount the SUPERB fund will pay for the active corrective action.

You may consider entering a written contract with your selected contractor following completion of the solicitation process. DHEC would not be a party to the contract; however, we will monitor and ensure you are making progress with corrective action activities. If the selected contractor is not able to complete the required activities, you will be required to find another certified contractor to complete the required activities. Notably, should costs to complete this active corrective action work exceed the existing financial approval amount, no additional funding from the SUPERB Account may be allowed to complete this active corrective action work.

To utilize the owner/operator lead option, please sign and return the enclosed Owner/Operator Lead Form for Site Rehabilitation within 15 days of the date of this letter.

Option 2: State Lead

If you choose the state lead option, DHEC will procure a DHEC Certified Site Rehabilitation Contractor to perform active corrective action. The contractor for this work will enter into a contract with DHEC and will be subject to the terms and conditions of the bid document for which he or she was awarded the work. You would not be a party to the contract.

The awarded contractor will only be authorized to perform the active corrective action as defined by the bid document. Any work to be completed prior to the scope of work as defined by the bid document will be performed by your current contractor. Any work to be performed after the completion of this active corrective action may be performed by your current contractor or by another DHEC certified contractor of your choosing.

As long as you do not interfere with or prohibit the work at your site, you will not be responsible for this active corrective action in the event the contractor does not perform appropriately or does not make satisfactory progress towards achieving the established corrective action goals.

To utilize the state lead option, please sign and return the enclosed State Lead Form for Site Rehabilitation within 15 days of the date of this letter.

We appreciate your prompt attention to this important matter. Please reference UST Permit #02314 on all correspondence or inquiries regarding this project. If you have any questions, please contact me at (803) 898-0608 or minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner, P.G., Hydrogeologist

Corrective Action & Field Support

Read & Minn

UST Management Division

Bureau of Land and Waste Management

enc: Active Corrective Action Options form

Permission/Right-of-Entry forms

cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484 (w/enc)

Technical File (w/enc)



State Lead Option Permission Form for Active Corrective Action

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, OR are the legal owner's designated authorized representative.

I certify that I am the legal owner of the existing or former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select a corrective action contractor, on my behalf, after bid solicitation results are received. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report.

promptly provide to m	e a copy of each environmer	ntal report.		
UST Permit #	<u>02314</u>	Release Report Date:	12/6/91	
Facility Name:		Maruti Kundal DBA Coun	try Cupboard 7	
Facility Address:		820 Chesterfield Hwy., Ch	neraw	
Facility Phone Numb	per:			
Is facility within c	ty limits? (circle	Yes		No
yes/no)				
Name of nearest in	ntersecting			
street/road/highv				
	sewer utility service	Yes		No
this facility?				
	a contact name/number that ca	an assist in the location of priva	te water and septic tan	k lines:
Name:		Phone Number:		
	isly removed from the g		Yes	No
	the name/contact number of a	person that can assist in the lo	ocation of the former U	ST(s):
Name:		Phone Number:		T
	ently leased to someone		Yes	No
Name:	the pending work scope, and p	please provide their name/conta	ct number:	
Maille.	en 2008 en la capación de la capació	Phone Number:	A STATE OF THE STA	and the second or an area of the second of t
*Please note tha former US	t if vehicles or other mol Ts, they should be move	bile structures are parked ed prior to DHEC's contra	l over the location ctor mobilizes to t	of the existing or he facility.
Name of UST owner authorized representations	er/former owner or entative (Print):		and the first section of the section	
Signature of UST of or authorized repr	wner/former owner esentative:			Date
Affiliation (if appli	cable)			
Signature of Witne	ess	र १८८५ - १९५५ स्टब्स्ट स्टब्स्ट्रेस्ट्रिस १५ स्टब्स्ट	jan kompetin jaran koja kaj ser	Date
	en en en en en en en en en en en en en e	Contact Info	en en en en en en en en en en en en en e	The second of th
Phone Numbers:	Home:	Cell:		
Email Address:				

DHEC-



Owner/Operator Lead Form for Site Rehabilitation

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, OR are the legal owner's designated authorized representative.

I certify that I am the legal owner of record for the underground storage tanks identified below for the release date reported below or serve as the authorized representative for the owner. I wish for DHEC to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select my own corrective action contractor after bid solicitation results are received. I understand the low bid will determine the maximum amount the SUPERB fund will pay for the active corrective action. I understand if the selected contractor is not able to complete the required activities, I will be required to find another certified contractor to complete the required activities. No additional funding from the SUPERB Account may be allowed above the remainder of the existing financial approval amount to complete the remaining required activities.

UST Permit #	<u>02314</u>	Release Report Date:	<u>12/6/91</u>	
Facility Name:		Maruti Kundal DBA Country Cup	board 7	
Facility Address:		820 Chesterfield Hwy., Cheraw		
Facility Phone Numb	er:			
	and the second of the second o			i garanti da de servizio de la constanti de la constanti de la constanti de la constanti de la constanti de la La constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti d
Name of UST owner authorized representations	er/former owner or entative (Print):			
Signature of UST of authorized representations	wner/former owner esentative:			Date
Affiliation (if appli	cable)			
Signature of Witne	ess	ng ti sang ng ngunan sagalah lalaga nganan sana in na sagan nanagapapapang	rome, eljeptige om legemen toel, eljene leeren je	Date
<u> 1. A. y. y. y. y. y. 1. A. A. A. A. Y. y. y. y. y. y. y. y. y. y. y. y. y. y.</u>	a di wili di gigap a kasan di kili di gira di kabisa sa		. Propinski se po sa Privski Privski si se se se in Privski privski se in Privski se in Privski se in Privski s	
		Contact Info		
Phone Numbers:	Home:	Cell:		
Email Address:				

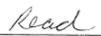


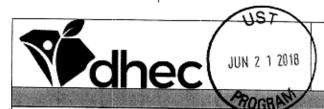
Owner/Operator Lead Form for Site (NO) Rehabilitation

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of record for the underground storage tanks identified below for the release date reported below or serve as the authorized representative for the owner. I wish for DHEC to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select my own corrective action contractor after bid solicitation results are received. I understand the low bid will determine the maximum amount the SUPERB fund will pay for the active corrective action. I understand if the selected contractor is not able to complete the required activities, I will be required to find another certified contractor to complete the required activities. No additional funding from the SUPERB Account may be allowed above the remainder of the existing financial approval amount to complete the remaining required activities.

UST Permit #	02314	Release Report Date: RNER	12/6/91	
Facility Name:		Maruti Kundal DBA Country Cupl	board 7	
Facility Address:		820 Chesterfield Hwy., Cheraw		
Facility Phone Num	ber:			
Name of UST own authorized repres	er/former owner or entative (Print):	Charles Jackson	1	
Signature of UST or authorized repr	owner/former owner resentative:	Carl Of		le-14-208 Date
Affiliation (if appli	cable)			
Signature of Witne	ess	Sull		しー14-18 Date
		Contact Info		
Phone Numbers:	Home:	Cell:		
Email Address:	O Litek So	ne jackson O.L. co	M	
	. /*			





Owner/Operator Lead Form for Site Rehabilitation

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, OR are the legal owner's designated authorized representative.

I certify that I am the legal owner of record for the underground storage tanks identified below for the release date reported below or serve as the authorized representative for the owner. I wish for DHEC to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select my own corrective action contractor after bid solicitation results are received. I understand the low bid will determine the maximum amount the SUPERB fund will pay for the active corrective action. I understand if the selected contractor is not able to complete the required activities, I will be required to find another certified contractor to complete the required activities. No additional funding from the SUPERB Account may be allowed above the remainder of the existing financial approval amount to complete the remaining required activities.

UST Permit #	02314	Release Report Date:	12/6/91	
Facility Name:		Maruti Kundal DBA Country Cupb		
Facility Address:		820 Chesterfield Hwy., Cheraw		
Facility Phone Num	ber:			
	ALAN STATE OF THE STATE OF	BOOK SOME THE RESIDENCE OF		
Name of UST own authorized repres	er/former owner or entative (Print):	Charles Jackson	J-	
Signature of UST or authorized repr	owner/former owner resentative:	Chall Of	2	le-/4-2018 Date
Affiliation (if appli	cable)			
Signature of Witne	ess	Sull		し-14-18 Date
		Catalogical Advantage		11. 1 March 1971
-		Contact Info		
Phone Numbers:	Home:	Cell:		
Email Address:	@ LACKSO	on O packson O. L. col	n	



Document Receipt Information

Hard Copy	СР	Email Email
Date Received	7-10-	18
Permit Number	073	Miner-
Project Manager	Read 1	Miner-
Name of Contractor _	TES	
UST Certification Num	nber	
Docket Number		41 tech
Scanned		
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RECOVERY WELL INSTALLATION AND AGGRESSIVE FLUID VAPOR RECOVERY (AFVR) EVENTS REPORT MARUTI KUNDAL (FORMER WINDSOR MART) 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #57075

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 225-3472 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9J

KELLY K. CONE, PG Vice President

KK Con

JASON A. TERRY, PG President

JUNE 2018



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SCDHEC UST PERMIT #02314

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A. INTRODUCTION

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Maruti Kundal (Former Windsor Mart) (02314)

Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Name: Jackson Oil Company, Inc.

Address: 755 South 4th Street, Hartsville, SC 29550

Telephone: 843-537-7080

3. Contractor Information

Name: Terry Environmental Services, Inc.

Address: P.O. Box 25, Summerville, South Carolina 29484

Telephone: 843-873-8200 UCC-0223

4. Well Driller Information

Name: Geologic Exploration Services, Inc.

Address: 176 Commerce Blvd., Statesville, North Carolina 28625

Telephone: 704-872-7686

Certification: Brian Thomas (1465-B)

5. Laboratory Information

Not Applicable

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown
Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Former Windsor Mart)

UST#	Product	Date Installed	Currently In Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	

Other Releases at this site? Yes No XXXX

If yes, Date Release Reported to SCDHEC n/a

Status of Release: n/a

No Further Action Date: n/a



7. Regional Geology and Hydrogeology

The Maruti Kundal (former Windsor Mart) site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)

B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work.

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1.000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. During this scope of work, depth to groundwater was measured between 17 and 20 feet below top of casing in the recovery and influence wells gauged prior to the start of each event.



C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

1. Well Installation Details

The recovery well locations were specified by the SCDHEC UST Project Manager in the Recovery Well Installation and AFVR Directive dated May 22, 2018. On May 30, 2018, two (2) four-inch recovery wells (RW-4 and RW-5) were installed in accordance with the South Carolina Well Standards and Regulations. The wells were installed by Geologic Exploration using hollow stem auger (HSA) techniques. Well Construction Logs are provided in Appendix E. The soil cuttings were initially stored in 55-gallon drums onsite. The soil cuttings were properly disposed of by JBR Environmental Services on June 8, 2018. The disposal manifest is provided in Appendix G.

2. Well Development Procedures

On June 5, 2018 TERRY personnel developed the newly installed monitoring wells. A surge block and a clean purge pump with new, disposable tubing was utilized for developing the wells. In accordance with the SCDHEC UST QAPP, Revision 3.1, development is complete once pH, specific conductance, and temperature of the groundwater have stabilized, and turbidity has either stabilized or is below 10 nephelometric turbidity units (NTUs). The Well Development Logs and the calibration data are provided in Appendix E. The well development water generated was properly disposed of by JBR Environmental Services on June 8, 2018. The disposal manifests are provided in Appendix G.

3. Well Location Justification

The recovery wells (RW-4 and RW-5) were installed to aid in the extraction of free-phase product and source area contaminated groundwater during AFVR Events.



E. GROUNDWATER DATA

Not Applicable. No groundwater samples were collected during this scope of work.

F. AFVR INFORMATION

1. Scope of Work

As directed by SCDHEC, two (2) consecutive 96-hour AFVR Events were performed; between June 18, 2018 and June 22, 2018 event one was conducted on monitoring/recovery wells MW-1, MW-4, RW-1, and RW-2 and between June 25, 2018 and June 29, 2018 event two was conducted on monitoring/recovery wells RW-4 and RW-5. TERRY Environmental Services, Inc. performed the AFVRs.

2. AFVR Emissions Table

AFVR Emissions Table (Event 1) – Attached

AFVR Emissions Table (Event 2) – Attached

Extraction Well Stinger Depth Table (Event 1) – Attached

Extraction Well Stinger Depth Table (Event 2) – Attached

3. Vacuum Data Table

Vacuum and Potentiometric Data Table (Event 1) – Attached

Vacuum and Potentiometric Data Table (Event 2) – Attached

4. Volume of Water Recovered

25,794 gallons of fluid were recovered during the 96-hour event conducted June 18, 2018 through June 22, 2018. 43,652 gallons of fluid were recovered during the 96-hour event conducted June 25, 2018 through June 29, 2018. The gallons recovered were calculated based on a conversion of the net weight of the water to gallons; using a weight of 8.33 pounds per gallon. DHEC calculates the gallons recovered based on a weight of 8.34 pounds per gallon. Therefore, the revised totals of 25,764 gallons and 43,600 gallons of fluid were recovered per event. A revised total of 69,364 gallons of fluid were recovered during the two events.

5. Volume of Product Recovered

At the completion of the event no product was detected in the recovery tank. However, the AFVR process routinely emulsifies product which can take several hours to separate.

6. Mass of Petroleum Recovered as Vapor

183.50 pounds of volatile organic vapors (approximate equivalent of 29.36 gallons of gasoline) were recovered during the course of the 96-hour event conducted June 18, 2018 through June 22, 2018. 98.88 pounds of volatile

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 1) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

Date:		18-22, 2										Average	Depth to	Gro	undwater:		17-20	ft.	
Site Name:	Marut	i Kundal	(Former	Winds	sor Mart)						Describe Soil in Saturated Zone: Silty Sand							
SCDHEC Sit	e ID #:	- 3	02314	C/r		V.					- 9	Vacuum Contractor: TERRY Environmental Services, Ir							ic.
Well ID #:	MW-	1, -4, RW	1-1, & -2			Blow	er Specifi	cation of	the Vacuu	ım Truck (CF	M @ Hg):								
	DRY	STANDA	ARD CUE	SIC FE	ET PER	MINUTE	(DSCFM	CALC	ULATIONS	S (Qstd)	and the second	100000	A Comment	EM	ISSION C	ALCULAT	ION	Introduction	and the same of
	Remarks to	Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM	PPM,	Reduction	Elapsed time	Flow	PPM,	PPM.	K	Cun	C,	PMR.	PMR.	PMR,
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm):	(%)	(min)	(DSCFM)				(mg/dsm²)	(lb/dscf)	(lb/hr)	(lbhr)	(gal/hr)
6/18/2018	15:00	21.5	758	3	118.7	30.2	1,637	7.2	100	0	30.96	1794.37	7177.48	4	3581.29	2.236E-04	0.42	0.48	0.08
6/18/2018	15:30	21.0	734	3	118,9	29.8	1,985	14.8	99	30	29.96	2175.83	8703.30	4	4342.61	2.711E-04	0.49	0.56	0.09
6/18/2018	16:00	21.0	794	3	120.0	32.1	1,838	16.4	99	60	32.35	2014.69	8058.77	4	4021.02	2.510E-04	0.49	0.56	0.09
6/18/2018	16:30	21.5	747	3	122.1	34.7	2,123	37.2	98	90	30.33	2327.09	9308.37	4	4644.51	2.900E-04	0.53	0.61	0.10
6/18/2018	17:00	22.0	694	3	118.3	35.6	2,723	66.7	98	120	28.36	2984.77	11939.09	4	5957.14	3.719E-04	0.63	0.73	0.12
6/18/2018	17:30	22.5	704	3	116.2	38.3	3,100	140.1	95	150	28.87	3398.01	13592.06	4		4.234E-04	0.73	0.85	0.14
6/18/2018	18:00	23.0	689 671	3	110.9	38.7	4,087	201.7	95 95	180 210	28.52	4479.90	17919.59	4	8941.18	5.582E-04	0.96	1.11	0.18
6/18/2018	18:30	20.0	1,209	3	107.7	34.8	4,960 4,815	398	92	240	48.86	5436.82 5277.88	21747.29	4	10851,06	6.774E-04 6.576E-04	1.14	1.31	0.21
6/18/2018	19:30	18.5	1,437	3	124.8	41.5	3,963	403	90	270	58.05	4343.98	17375.91	4	8669.91	5.413E-04	1.89	2.18	0.35
6/18/2018	20:00	22.0	1,292	3	116.2	40.6	3,429	300	91	300	52.99	3758.64	15034.57	4	7501.67	4.683E-04	1.49	1.72	0.35
6/18/2018	20:30	22.0	1,088	3	115.5	42.2	3.612	327	91	330	44.68	3959.23	15836.94	4	7902.02	4.933E-04	1.32	1.53	0.24
6/18/2018	21:00	23.0	1,071	3	110.0	39.9	3.614	310	91	360	44.41	3961.43	15845.71	4	7906.40	4.936E-04	1.32	1.52	0.24
6/18/2018	21:30	23.0	1,153	3	114.4	39.7	3,680	318	91	390	47.44	4033.77	16135.09	4	8050.78	5.026E-04	1.43	1.66	0.26
6/18/2018	22:00	23.0	1,095	3	117.2	40.2	3,711	324	91	420	44.83	4067.75	16271.01	4	8118.60	5.068E-04	1.36	1.58	0.25
6/18/2018	22:30	23.0	1,112	3	116.5	37.5	3,699	278	92	450	45.59	4054.60	16218.39	4	8092.35	5.052E-04	1.38	1.60	0.26
6/18/2018	23:00	23.0	1,141	3	117.0	38.8	3,864	299	92	480	46.73	4235.46	16941.84	4	8453.32	5.277E-04	1.48	1.71	0.27
6/19/2018	0.00	23.0	1,130	3	119.0	38.5	3,100	430	86	540	46.12	3398.01	13592.06	4	6781.91	4.234E-04	1.17	1.36	0.22
6/19/2018	8:00	23.0	1,089	3	114,7	37.1	3,670	374	90	1020	44.78	4022.81	16091.24	4	8028.91	5.012E-04	1.35	1.56	0.25
6/19/2018	9:00	23.0	622	3	109.2	37.9 35.7	4,975	493 467	90 89	1080	25.83	5453.26	21813,06	4	10883.87	6.795E-04	1.05	1.22	0.19
6/19/2018	10:00	23.5	685 797	3	110.3	27.6	4,326	499	90	1140 1200	28.39	4741.87 5383.11	18967.49 21532.45	4	9464.05	5.908E-04 6.707E-04	1.01	1.16	0.19
6/19/2018	12:00	23.5	790	3	111.9	24.2	4,126	333	92	1260	32.65	4522.65	18090.59	4	9026.50	5.635E-04	1.10	1.28	0.20
6/19/2018	13:00	21.0	1,210	3	120.1	25.7	4,300	379	91	1320	49.29	4713.37	18853.50	4	9407.17	5.873E-04	1.74	2.01	0.32
6/19/2018	14:00	20.0	1,598	3	137.4	25.9	4,505	358	92	1380	63.22	4938.08	19752.33	4	9855.65	6.153E-04	2.33	2.70	0.43
6/19/2018	15:00	18.0	1,823	3	140.9	18.6	3,191	327	90	1440	71.70	3497.76	13991.05	4	6980.99	4.358E-04	1.87	2.17	0.35
6/19/2018	17:00	20.0	1,828	3	131.1	18.1	3,323	376	89	1560	73.09	3642.45	14569.81	4	7269.77	4.539E-04	1.99	2.30	0.37
6/19/2018	19:00	19.0	1,748	3	126.5	26.0	4,652	461	90	1680	70.44	5099.21	20396.85	4	10177.24	6.354E-04	2.69	3.11	0.50
6/19/2018	21:00	18.0	1,688	3	123.1	33.9	3,590	422	88	1800	68.41	3935.12	15740.48	4	7853.89	4.903E-04	2.01	2.33	0.37
6/19/2018	23:00	19.0	1,689	3	119.9	34.2	3,599	468	87	1920	68.83	3944.98	15779.94	4	7873.58	4.915E-04	2.03	2.35	0.38
6/20/2018	0:00	19.0	1,740	3	126.4	36.0	3,693	480	87	1980	70.13	4048.02	16192.08	4	8079.22	5.044E-04	2.12	2.46	0.39
6/20/2018	8:00	19.0	1,666	3	99.8	37.2	1,981	239	88	2460	70.33	2171.44	8685.76	4	4333.86	2.706E-04	1.14	1.32	0.21
6/20/2018	10:00	19.0	1,679	3	127.9	33.1	4,941	604	88	2580	67.49	5416.00	21663.98	4	10809.49	6.748E-04	2.73	3.16	0.51
6/20/2018	12:00	17.0	3,014	3	137.8	25.9 24.2	1,823	271	85 84	2700 2820	97.69	1998.25	7993.01 5471.90	4	3988.20 2730.27	2.490E-04 1.705E-04	1.46	1.69	0.27
6/20/2018	16:00	17.0	2,272	3	126.3	25.2	3,753	332	91	2940	91.58	4113.79	16455,16	4	8210.49	5.126E-04	2.82	3.26	0.22
6/20/2018	18:00	16.5	2,118	3	128.1	35.5	4,157	439	89	3060	85.11	4556.63	18226.51	4	9094.32	5.678E-04	2.90	3.35	0.52
6/20/2018	20:00	20.0	1,674	3	118.4	35.0	3,480	459	87	3180	68.40	3814.54	15258.18	4	7613.24	4.753E-04	1.95	2.26	0.36
6/20/2018	22:00	20.0	1,423	3	116.6	33.7	3,316	402	88	3300	58.32	3634.78	14539.11	4	7254.46	4.529E-04	1.58	1.83	0.29
6/21/2018	0:00	20.0	1,380	3	120.0	32.0	3,094	415	87	3420	56.23	3391.44	13565.75	4	6768.78	4.226E-04	1.43	1.65	0.26
6/21/2018	8:00	19.0	1,199	3	126.0	44.7	3,688	529	86	3900	48.36	4042.54	16170.16	4	8068.29	5.037E-04	1.46	1.69	0.27
6/21/2018	10:00	19.0	1,683	3	123.9	35.5	4,275	215	95	4020	68.12	4685.97	18743.88	4	9352.47	5.839E-04	2.39	2.76	0.44
6/21/2018	12:00	20.0	1,693	3	131,7	27.9	4,723	211	96	4140	67.62	5177.04	20708.15	4	10332.57	6.451E-04	2.62	3.03	0.48
6/21/2018	14:00	20.0	1,686	3	133.5	28.1	3,853	187	95	4260	67.14	4223.40	16893.61	4	8429.26	5.262E-04	2.12	2.45	0.39
6/21/2018	16:00	19.0	1,653	3	121.2	20.6	4,120	254	94	4380	67.22	4516.07	18064.28	4	9013.38	5.627E-04	2.27	2.63	0.42
6/21/2018	18:00	20.0	1,603	3	128.3	24.7	4,049	244	94	4500	64.40	4438.24	17752.98	4	8858.05	5.530E-04	2.14	2.47	0.40
6/21/2018	20:00	20.0	1,534	3	123.8	33.7	3,963	286	93	4620 4740	62.10 59.62	4343.98	17375.91	4	8669.91 8004.84	5.413E-04 4.997E-04	1.79	2.33	0.37
6/21/2018	0:00	20.0	1,482	3	125.5	38.1	3,659	301	92	4740 4860	59.46	4010.75	16183.32	4	8004.84	5.041E-04	1.79	2.07	0.33
6/22/2018	8:00	18.0	1,482	3	127.4	38.1	3,691	424	89	5340	56.29	4245.42	16985.68	4	8475.20	5.041E-04 5.291E-04	1.79	2.08	0.33
6/22/2018	10:00	19.0	1,411	3	126.3	37.6	3,874	418	89	5460	56.88	4139.00	16556.00	4	8260.80	5.157E-04	1.79	2.04	0.33
6/22/2018	12:00	19.0	1,500	3	128.1	34.0	3,881	440	89	5580	60.28	4254.09	17016.38	4	8490.51	5.301E-04	1.92	2.22	0.35
6/22/2018	14:00	20.0	1,489	3	131.6	33.5	3.902	429	89	5700	59.48	4277.11	17108.45	4	8536.46	5.329E-04	1.90	2.20	0.35
6/22/2018	15:00	20.0	1,512	3	131.9	33.3	4,101	452	89	5760	60.37	4495.24	17980.97	4	8971.81	5.601E-04	2.03	2.35	0.38
Average		20.5	1367.5	3.0	122.3	33.4	3632	326	91		55.50	3981.58	15926.33	4	7946.62	4.961E-04	1,65	1.91	0.31
Bws =	0.088	Bwsw:	0.06										Tota	I Po	unds of Cart	on Recover	ed as En	nissions	158.60

Total Pounds of Carbon Recovered as Emissions: 158.60
Total Pounds of Gasoline Vapor Recovered as Emissions: 183.60
Total Callons of Gasoline Recovered as Emissions: 29.36
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

SECTION F-2A AFVR EMISSIONS TABLE (EVENT 2) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCOHEC UST PERMIT #02314

ate:	June :	25-29, 21	J18									Average	Debtu to	UIU	indwater:		17-18	114	
ite Name:	Marut	i Kundal	(Former	Winds	or Mart	iš.						Describe	Soil in S	atura	ited Zone:		Silty S	and	
CDHEC Site			02314								- 1		Contract			nvironmer			ne
		MAL A 0 TO				DI.			tab - M-	and Wasterlands 1995	TI OU				- anni E	virorini)ei	mai oei	**CC5, I	
Vell ID #:		RW-4 & R								ım Truck (Cf	-M @ Hg):	282 CF	M @ 25"						
- 1	DRY	STANDA	ARD CUE	BIC FE	ET PER	MINUTE	(DSCFM) CALC	ULATIONS	S (Qstd)	CONTRACTOR OF	THE REAL PROPERTY.		EM	ISSION C	ALCULAT	ION	and the latest of the latest o	and the same
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM	PPM	Reduction	Elapsed time	Flow	PPM,	PPM.	K	Cun	C,	PMR,	PMR,	PM
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm²)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/t
6/25/2018	13:30	27.0	873	3	142.0	75.0	1,630	18.0	99	0	34.27	1786.70	7146.79	4	3565.97	2.226E-04	0.46	0.53	0.0
6/25/2018	14:00	26.0	895	3	150.0	73.0	1,680	16.0	99	30	34.67	1841.50	7366.02	4	3675.36	2.295E-04	0.48	0.55	0.0
		26.0	920	3		81.0													
6/25/2018	14:30				148.0		1,710	19,0	99	60	35.76	1874.39	7497.55	4	3740.99	2.335E-04	0.50	0.58	0.0
6/25/2018	15:00	26.0	915	3	155.0	94.0	1,805	21.0	99	90	35.16	1978.52	7914.08	4	3948.82	2.465E-04	0.52	0.60	0.1
6/25/2018	15:30	26.0	985	3	150.0	87.0	1,775	37.0	98	120	38.16	1945.64	7782.55	4	3883.19	2.424E-04	0.56	0.64	0.1
6/25/2018	16:00	26.0	1,180	3	167.0	91.0	1,290	41.0	97	150	44.48	1414.01	5656.05	4	2822.15	1.762E-04	0.47	0.54	0.0
6/25/2018	16:30	26.0	1,140	3	161.0	89.0	810	20.5	97	180	43.38	887.87	3551.47	4	1772.05	1.106E-04	0.29	0.33	0.0
6/25/2018	17:00	26.0	1,170	3	160.0	87.0	905	4.7	99	210	44.60	992.00	3968.00	4	1979.88	1.236E-04	0.33	0.38	0.0
6/25/2018	17:30	25.0	980	3	151.0	79.0	870	10.2	99	240	37.91	953.64	3814.54	4	1903.31	1.188E-04	0.27	0.31	0.0
6/25/2018	18:00	25.0	1,010	3	149.0	81.0	610	8.9	99	270	39.19	668.64	2674.57	4	1334.50	8.331E-05	0.20	0.23	0.0
	18:30	25.0		3				8.5	99			688.37		4					
6/25/2018			980		148.0	87.0	628			300	38.09		2753.49		1373.88	8.577E-05	0.20	0.23	0.0
6/25/2018	19:00	25.0	1,160	3	151.0	79.0	1,300	28.1	98	330	44.87	1424.97	5699.89	4	2844.03	1.776E-04	0.48	0.55	0.0
6/25/2018	19:30	25.0	1,110	3	141.0	76.0	1,871	24.2	99	360	43.65	2050.87	8203.46	4	4093.21	2.555E-04	0.67	0.77	0.1
6/25/2018	20:00	25.0	1,120	3	145.0	81.0	2,145	27.5	99	390	43.75	2351.21	9404.83	4	4692.64	2:930E-04	0.77	0.89	0.1
6/25/2018	20:30	22.5	938	3	89.0	52.0	1,569	23.5	.99	420	40.38	1719.83	6879.33	4	3432.52	2.143E-04	0.52	0.60	0.1
6/25/2018	21:00	22.0	905	3	81.6	50.7	1,084	30.9	97	450	39,49	1188.21	4752.83	4	2371.48	1.481E-04	0.35	0.41	0.0
6/25/2018	21:30	22.0	888	3	81.9	49.9	1,189	7.8	99	480	38.73	1303.30	5213.21	4	2601.19	1.624E-04	0.38	0.44	0.0
6/25/2018	22:30	22.0	910	3	80.1	49.7	1,024	11.3	99	540	39.82	1122.44	4489.76	4	2240.22	1.399E-04	0.33	0.39	0.0
6/25/2018	23:30	22.0	889	3	79.5	51.2	987	14.1	99	600	38.94	1081.88	4327.54	4	2159.27	1.348E-04	0.31	0.36	0.0
6/26/2018	0:00	22.0	901	3	81.3	50.9	1,112	15.7	99	630	39.34	1218.90	4875.60	4	2432.74	1.519E-04	0.36	0.41	0.0
6/26/2018	8:00	22.0	874	3	80.4	41.5	1,129	31.9	97	1110	38.22	1237.53	4950.14	4	2469.93	1.542E-04	0.35	0.41	0.0
6/26/2018	9:00	23.0	913	3	88.9	17.1	1,702	66.1	96	1170	39.31	1865.62	7462.48	4	3723.49	2.325E-04	0.55	0.63	0.1
6/26/2018	10:00	23.0	892	3	92.7	15.9	2.639	106.8	96	1230	38.14	2892.70	11570.79	4	5773.37	3.604E-04	0.82	0.95	0.1
6/26/2018	11:00	23.0	905	3	99.5	16.4	2,544	411.4	84	1290	38.23	2788.56	11154.25	4	5565.54	3.475E-04	0.80	0.92	0.1
6/26/2018	12:00	25.0	799	3	101.3	15.2	3,606	425.3	88	1350	33.64	3952.66	15810.63	4	7888.89	4.925E-04	0.99	1.15	0.1
6/26/2018	13:00	25.0	852	3	100.2	14.3	4,866	477.2	90	1410	35.94	5333.79	21335.14	4	10645.41	6.646E-04	1.43	1.66	0.2
6/26/2018	14:00	23.0	900	3	109.3	18.8	2,407	202.8	92	1470	37.36	2638.39	10553.57	4	5265.83	3.287E-04	0.74	0.85	0.1
6/26/2018	16:00	25.0	895	3	104.3	17.8	4,919	489.5	90	1590	37,48	5391,88	21567.52	4	10761.36	6.718E-04	1.51	1.75	0.2
6/26/2018	18:00	25.0	873	3	92.0	19.6	3,002	492.9	84	1710	37.38	3290.59	13162.37	4	6567.51	4.100E-04	0.92	1.06	0.1
6/26/2018	20:00	25.0	866	3	86.8	21.4	2,800	240.3	91	1830	37.43	3069.17	12276.70	4	6125.60	3.824E-04	0.86	0.99	0.1
6/26/2018	22:00	23.0	896	3	92.1	28.1	3,684	218.5	94	1950	38.35	4038.16	16152.62	4	8059.53	5.032E-04	1.16	1.34	0.2
6/27/2018	0:00	23.0	887	3	90.3	40.4	4,336	296.1	93	2070	38.09	4752.83	19011.34	4	9485.92	5.922E-04	1.35	1.57	0.2
6/27/2018	8:00	23.0	902	3	90.8	50.2	4.701	332.6	93	2550	38.70	5152.92	20611.69	4	10284.44	6.421E-04	1.49	1.73	0.2
6/27/2018	10:00	23.0	855	3	98.0	45.5	4,404	416.0	91	2670	36.21	4827.37	19309.49	4	9634.69	6.015E-04	1.31	1.51	0.2
						52.3													0.2
6/27/2018	12:00	25.0	799	3	103.6		4,011	544,3	86	2790	33.50	4396.59	17586.37	4	8774.92	5.478E-04	1.10	1.27	
6/27/2018	14:00	25.0	820	3	106.5	50.0	3,985	662.3	83	2910	34.21	4368.09	17472.37	4	8718.04	5.443E-04	1.12	1.29	0.2
6/27/2018	16:00	25.0	812	3	108.8	49.9	4,851	724.6	85	3030	33.74	5317.34	21269.37	4	10612.60	6.625E-04	1.34	1.55	0.2
6/27/2018	18:00	22.0	865	3	111.4	47.5	4,081	733.7	82	3150	35.78	4473.32	17893.28	4	8928.06	5.574E-04	1.20	1.38	0.2
6/27/2018	20:00	23.0	877	3	109.5	44.2	4,642	708.5	85	3270	36.39	5088.25	20353.01	4	10155.36	6.340E-04	1.38	1.60	0.2
6/27/2018	22:00	23.0	908	3	86.9	43.1	4,074	678.6	83	3390	39.24	4465.65	17862.50	4	8912.74	5.564E-04	1.31	1.52	0.2
6/28/2018	0:00	23.0	888	3	80.6	31.4	4,301	545.7	87	3510	38.82	4714.47	18857.88	4	9409.35	5.874E-04	1.37	1.58	0.2
6/28/2018	8:00	23.0	881	3	89.7	45.9	4,368	373.5	91	3990	37.88	4787.91	19151.64	4	9555.93	5.966E-04	1.36	1.57	0.2
6/28/2018	10:00	24.0	856	3	100.2	48.8	4,084	599.6	85	4110	36.11	4476.61	17906.44	4	8934.62	5.578E-04	1.21	1.40	0.2
6/28/2018	12:00	25.0	811	3	108.7	44.9	3,763	505.0	87	4230	33.70	4124.75	16499.00	4	8232.36	5.139E-04	1.04	1.20	0.
6/28/2018	14:00	23.0	815	3	114.5	50.5	4,240	666.8	84	4350	33.53	4647.61	18590.42	4	9275.90	5.791E-04	1.16	1.35	0.2
6/28/2018	16:00	22.0	833	3	119,1	57.6	4,265	628.2	85	4470	33.99	4675.01	18700.04	4	9330.60	5.825E-04	1.19	1.37	0.2
6/28/2018	18:00	23.0	862	3	118.5	58.5	4,096	561.5	86	4590	35.21	4489.76	17959.05	4	8960.87	5,594E-04	1,18	1.37	0.3
6/28/2018	20:00	23.0	868	3	114.2	52.4	3,988	547.3	86	4710	35.73	4371.38	17485.52	4	8724.60	5.447E-04	1.17	1.35	0.3
6/28/2018	22:00	24.0	867	3	90.8	42.4	4.014	459.7	89	4830	37.20	4399.88	17599.52	4	8781.48	5.482E-04	1.22	1.42	0.3
6/29/2018	0:00	24.0	916	3	94.6	47.4	3,766	497.9	87	4950	39.03	4128.04	16512.16	4	8238.93	5.144E-04	1.20	1.39	0.1
6/29/2018	8:00	24.0	923	3	91.2	35.3	3,721	451.2	88	5430	39.57	4078,71	16314.85	4	8140.48	5.082E-04	1.21	1.40	0.2
6/29/2018	10:00	25.0	926	3	98.3	40.5	3,662	505.8	86	5550	39.20	4014.04	16056.16	4	8011.41	5.002E-04	1.18	1.36	0.2
6/29/2018	12:00	24.0	911	3	101.4	50.2	3,993	616.8	85	5670	38.35	4376.86	17507.44	4	8735.54	5.454E-04	1.25	1.45	0.2
6/29/2018	13:30	23.0	920	3	105.7	52.6	3,856	620.2	84	5760	38.43	4226.69	16906.76	4	8435.82	5.266E-04	1.21	1.41	0.2
Average		24.0	917.3	3.0	111.0	51.3	2861	300	92		37.97	3136.04		4	6259.05	3.908E-04	0.89	1.03	0.1

Total Pounds of Carbon Recovered as Emissions: 85.46
Total Pounds of Gasoline Vapor Recovered as Emissions: 98.88
Total Gallons of Gasoline Recovered as Emissions: 15.82
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

AFVR Definitions and Equations

Qstd = (60 sec/min) (1- Bws) (velocity) (Pipe ID sq.ft.) [(528 oR / (Temp. + 460)] (Listed As Flow Above)

 $Bws = (B_{wsw} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)

 $Cc = Ccm (62.43 E - 9 lb - m^3 / mg - ft^3)$

PMRg = (PMRc) (Mg/Mcg)

Bgs = below top of casing

 $Bws = (B_{WSW} / 18 \text{ lb-mole } H_2O) / [(1/28.84 \text{ lb-mole dry air}) + B_{wsw} / 18 \text{ lb-mole } H_2O)]$

Qstd = (60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Bgs = below top of casing

Bws - water vapor % by volume

PPMpre = measured directly from Photo Ionization Detector (PID) pre-treatment

PPMpost = measured directly from PID post-treatment

Bwsw - pounds of water per pound of dry air, derived from the psychometric chart (temp Vs relative hum)

PPMw = PPM measured (wet Conc.)

K = # of carbons in calibration gas (isobutylene)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm³, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

 $K_3 = 24.07 \text{ dsm}^3/10^6 \text{ mg-mole}$, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

PPMd = "dry" concentration

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Qstd - Flow at DSCFM

Ccm = PPMc (Mc/K₃)

PMRc = Cc (Qstd) (60 min/hr)

Reference:

North Carolina Department of Natural Resources, Division of Waste Management, Underground Storage Tank Section, Appendix B, Report Formats, April 2001.

SECTION F-2B

EXTRACTION WELL STINGER DEPTH TABLE (EVENT 1) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA

SCDHEC UST PERMIT #02314 JUNE 18-22, 2018

Well#	MW-1	Well #	MW-4	Well #	RW-1	Well#	RW-2
	Stinger		Stinger		Stinger		Stinger
Elapsed Time	Depth (ft)*	Elapsed Time	Depth (ft)*	Elapsed Time	Depth (ft)*	Elapsed Time	Depth (ft)*
0	19.0	0	19.0	0	19.0	0	19.0
0.5	19.5	0.5	19.5	0.5	19.5	0.5	19.5
1	20.0	1	20.0	1	20.0	1	20.0
1.5	20.5	1.5	20.0	1.5	20.5	1.5	20.5
2	21.0	2	20.0	2	21.0	2	21.0
2.5	21.5	2.5	19.5	2.5	21.5	2.5	21.5
3	22.0	3	19.5	3	22.0	3	22.0
3.5 4	22.0	3.5	19.0	3.5	22.0	3.5	22.0
4.5	21.5 20.5	4.5	19.0 19.0	4.5	23.0 23.5	4.5	23.0 23.5
5	20.0	5	19.0	5	24.0	5	24.0
5.5	20.0	5.5	19.0	5.5	24.5	5.5	24.5
6	20.0	6	19.0	6	25.0	6	25.0
6.5	20.0	6.5	19.0	6.5	25.0	6.5	25.0
7	20.0	7	19.0	7	25.0	7	25.0
7.5	20.0	7.5	19.0	7.5	25.0	7.5	25.0
8	20.0	8	19.0	8	25.0	8	25.0
9	19.0	9	19.0	9	24.0	9	24.0
17	18.0	17	18.0	17	23.0	17	23.0
18	18.0	18	18.0	18	23.0	18	23.0
19	19.0	19	19.0	19	20.0	19	20.0
20	19.0	20	19.0	20	20.0	20	20.0
21	19.0	21	19.0	21	20.0	21	20.0
22	19.0	22	19.0	22	20.0	22	20.0
23	18.0	23	18.0	23	18.0	23	18.0
24	18.0	24	18.0	24	18.0	24	18.0
26	18.0	26	18.0	26	17.0	26	18.0
28	18.0	28	18.0	28	17.0	28	18.0
30	18.0	30	18.0	30	17.0	30	18.0
32	18.0	32	18.0	32	17.0	32	18.0
33	18.0	33	18.0	33	17.0	33	18.0
41	18.0	41	18.0	41	17.0	41	18.0
43	18.0	43	18.0	43	17.0	43	18.0
45	18.0	45	18.0	45	20.0	45	20.0
47	18.0	47	18.0	47	20.0	47	20.0
49	17.0	49	17.0	49	17.0	49	17.0
51	17.0	51	17.0	51	17.0	51	17.0
53	17.0	53	17.0	53	17.0	53	17.0
55	17.0	55	17.0	55	17.0	55	17.0
57	17.0	57	17.0	57	17.0	57	17.0
65	17.0	65	17.0	65	17.0	65	17.0
67	17.0	67	17.0	67	17.0	67	17.0
69	17.0	69 71	17.0	69 71	17.0	69 71	17.0
71 73	17.0 17.0	71 73	17.0 17.0	71 73	17.0 17.0	71 73	17.0 17.0
75	17.0	75	17.0	75	17.0	75	17.0
77	17.0	77	17.0	77	17.0	77	17.0
77	17.0	79	17.0	79	17.0	79	17.0
81	17.0	81	17.0	81	17.0	81	17.0
89	17.0	89	17.0	89	17.0	89	17.0
91	17.0	91	17.0	91	17.0	91	17.0
93	17.0	93	17.0	93	17.0	93	17.0
95	17.0	95	17.0	95	17.0	95	17.0
96	17.0	96	17.0	96	17.0	96	17.0

^{*}Measured relative to the top of the well casing.

SECTION F-2B EXTRACTION WELL STINGER DEPTH TABLE (EVENT 2) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JUNE 25-29, 2018 Well# RW-4 Well# RW-5 **Elapsed Time** Stinger Depth (ft)* **Elapsed Time** Stinger Depth (ft)* 0 18.0 18.0 0 0.5 19.0 0.5 19.0 20.0 20.0 1 1 1.5 21.0 21.0 1.5 2 22.0 2 22.0 2.5 23.0 2.5 23.0 3 24.0 3 24.0 3.5 25.0 3.5 25.0 4 25.0 4 25.0 25.0 25.0 4.5 4.5 20.0 5 5 20.0 5.5 20.0 5.5 20.0 6 20.0 6 20.0 6.5 20.0 20.0 6.5 7 20.0 7 20.0 7.5 20.0 7.5 20.0 20.0 20.0 8 8 9 20.0 9 20.0 20.0 10 20.0 10 10.5 20.0 10.5 20.0 18.5 20.0 18.5 20.0 19.5 20.0 19.5 20.0 20.5 20.0 20.5 20.0 21.5 20.0 21.5 20.0 22.5 20.0 22.5 20.0 23.5 20.0 23.5 20.0 24.5 20.0 24.5 20.0 26.5 20.0 26.5 20.0 28.5 20.0 28.5 20.0 30.5 20.0 30.5 20.0 32.5 20.0 32.5 20.0 34.5 20.0 34.5 20.0 20.0 20.0 42.5 42.5 44.5 20.0 44.5 20.0 46.5 20.0 46.5 20.0 48.5 20.0 48.5 20.0 50.5 20.0 50.5 20.0 52.5 20.0 52.5 20.0 20.0 54.5 20.0 54.5 20.0 56.5 56.5 20.0 58.5 20.0 58.5 20.0 66.5 20.0 66.5 20.0 68.5 20.0 68.5 20.0 70.5 20.0 70.5 20.0 20.0 72.5 72.5 20.0 74.5 20.0 74.5 20.0 20.0 76.5 20.0 76.5 78.5 78.5 20.0 20.0 80.5 20.0 80.5 20.0 82.5 20.0 82.5 20.0 90.5 20.0 90.5 20.0 92.5 20.0 92.5 20.0 94.5 20.0 94.5 20.0

20.0

96

20.0

96

^{*}Measured relative to the top of the well casing.

SECTION F-3

VACUUM AND POTENTIOMETRIC DATA TABLE (EVENT 1) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JUNE 18-22, 2018

Well#	I MV	V-2R	Well#	NE 18-22, 20 MV	V-12	Well#	I MV	V-13
Elapsed	Vacuum (in		Elapsed	Vacuum (in	Depth to	Elapsed	Vacuum (in	Depth to
Time	H2O)	Water (ft.)*	Time	H2O)	Water (ft.)*	Time	H2O)	Water (ft.)*
0	0.0	18.95	0	0.0	17.59	0	0.0	17.74
0.5	0.0		0.5	0.0		0.5	0.0	
1	0.0		1	0.0		1	0.0	
1.5	0.0		1.5	0.0		1.5	0.0	
2	0.0	18.92	2	0.0	17.64	2	0.0	17.80
2.5	0.0		2.5	0.0		2.5	0.0	
3	0.0		3	0.0		3	0.0	
3.5	0.0		3.5	0.0		3.5	0.0	
4		10.00	3.3 4		17.65			17.01
	0.0	18.88		0.1	17.65	4	0.0	17.81
4.5	0.0		4.5	0.1		4.5	0.0	
5	0.0		5	0.1		5	0.0	
5.5	0.0		5.5	0.1		5.5	0.0	
6	0.0	18.83	6	0.0	17.68	6	0.0	17.84
6.5	0.0		6.5	0.0		6.5	0.0	
7	0.0		7	0.0		7	0.0	
7.5	0.0		7.5	0.0		7.5	0.0	
8	0.0	18.83	8	0.0	17.70	8	0.0	17.86
9	0.0	18.83	9	0.0	17.72	9	0.0	17.86
17	0.0	19.17	17	0.0	17.88	17	0.0	18.00
18	0.0		18	0.0		18	0.0	
19	0.0	19.22	19	0.0	17.89	19	0.0	18.40
20	0.0		20	0.0		20	0.0	
21	0.0	19.16	21	0.0	17.80	21	0.0	18.00
22	0.0		22	0.0		22	0.0	
23	0.0	18.91	23	0.0	17.73	23	0.0	17.87
24	0.0		24	0.0		24	0.0	
26	0.0	19.00	26	0.0	17.80	26	0.0	17.92
28	0.0	19.02	28	0.0	17.81	28	0.0	17.95
30	0.0	19.08	30	0.0	17.88	30	0.0	18.00
32	0.0	19.11	32	0.0	17.92	32	0.0	18.05
33	0.0	19.14	33	0.0	17.94	33	0.0	18.06
41	0.0	19.15	41	0.0	17.97	41	0.0	18.10
43	0.0	18.95	43	0.0	17.80	43	0.0	17.93
45	0.0	18.95	45	0.0	17.79	45	0.0	17.94
47	0.0	18.93	47	0.0	17.74	47	0.0	17.87
49	0.0	18.82	49	0.0	17.74	49	0.0	17.87
			_					
51 53	0.0	18.85 19.12	51	0.0	17.71	51 53	0.0	17.84
			53		17.85			18.00
55	0.0	19.09	55	0.0	17.83	55	0.0	18.01
57	0.0	19.03	57	0.0	17.82	57	0.0	18.03
65	0.0	19.20	65	0.0	17.97	65	0.0	18.14
67	0.0	19.12	67	0.0	17.92	67	0.0	18.06
69	0.0	18.97	69	0.0	17.87	69	0.0	18.02
71	0.0	18.97	71	0.0	17.83	71	0.0	17.93
73	0.0	18.95	73	0.0	17.80	73	0.0	17.92
75	0.0	18.94	75	0.0	17.79	75	0.0	17.92
77	0.0	19.03	77	0.0	17.84	77	0.0	18.00
79	0.0	19.07	79	0.0	17.88	79	0.0	18.02
81	0.0	19.08	81	0.0	17.86	81	0.0	18.01
89	0.0	19.07	89	0.0	17.87	89	0.0	18.03
91	0.0	19.07	91	0.0	17.86	91	0.0	18.03
93	0.0	19.05	93	0.0	17.86	93	0.0	18.02
95	0.0	19.04	95	0.0	17.85	95	0.0	17.99
96	0.0	19.03	96	0.0	17.85	96	0.0	17.98

^{*}Relative to top of well casing.

SECTION F-3

VACUUM AND POTENTIOMETRIC DATA TABLE (EVENT 2) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JUNE 25-29, 2018

Well #	I MV	V-13	Well#	NE 25-29, 20 MW	-19**	Well#	I MV	V-20
Elapsed	Vacuum (in		Elapsed	Vacuum (in	Depth to	Elapsed	Vacuum (in	Depth to
Time	H2O)	Water (ft.)*	Time	H2O)	Water (ft.)*	Time	H2O)	Water (ft.)*
0	0.0	17.88	0	0.0	17.32	0	0.0	17.40
0.5	0.0	17.90	0.5	0.0	17.41	0.5	0.5	17.41
1	0.0	17.99	1	0.0	17.42	1	0.5	17.45
1.5	0.3	18.00	1.5	0.4	17.25	1.5	0.5	17.50
2	0.3	18.29	2	0.4	17.30	2	0.5	17.62
2.5	0.1	18.30	2.5	1.5	17.32	2.5	1.0	17.80
3	0.0	18.25	3	2.0	17.25	3	1.0	17.64
3.5	0.0	18.27	3.5	2.0	17.30	3.5	1.0	17.71
4	0.0	18.25	4	1.5	17.32	4	1.0	17.70
4.5	0.0	18.25	4.5	1.5	17.35	4.5	1.0	17.69
5	0.0	18.25	5	1.5	17.40	5	1.0	17.69
5.5	0.0	18.37	5.5	1.5	17.41	5.5	1.0	17.77
6	0.0		6	1.5		6	1.0	
6.5	0.0		6.5	1.5		6.5	1.0	
7	0.0		7	1.5		7	1.0	
7.5	0.0	18.24	7.5	1.6	17.36	7.5	0.0	17.80
8	0.0		8	1.6		8	0.0	
9	0.0		9	1.6		9	0.0	
10	0.0	18.17	10	1.6	17.40	10	0.0	17.66
10.5	0.0		10.5	1.6		10.5	0.0	
18.5	0.0	18.13	18.5	1.8	17.33	18.5	0.0	17.44
19.5	0.0	18.17	19.5	1.7	17.36	19.5	1.0	17.46
20.5	0.0		20.5	1.7		20.5	1.0	
21.5	0.0	18.22	21.5	2.0	17.40	21.5	1.3	17.51
22.5	0.0		22.5	2.0		22.5	1.3	
23.5	0.2	18.35	23.5	2.8	17.55	23.5	2.0	17.82
24.5	0.1	18.42	24.5	2.2	17.57	24.5	1.8	17.80
26.5	0.3	18.40	26.5	2.5	17.64	26.5	2.2	17.84
28.5	0.3	18.46	28.5	3.0	17.62	28.5	2.7	17.90
30.5	0.3	18.45	30.5	3.3	17.69	30.5	2.6	17.90
32.5	0.0	18.19	32.5	3.3	17.45	32.5	1.6	17.49
34.5	0.0	18.68	34.5	0.8	17.70	34.5	0.4	18.13
42.5	0.0	18.62	42.5	1.4	17.66	42.5	0.7	18.03
44.5	0.1	18.68	44.5	2.0	17.69	44.5	1.0	18.10
46.5	0.0	18.70	46.5	1.0	17.72	46.5	0.2	18.11
48.5	0.0	18.60	48.5	0.5	17.68	48.5	0.1	17.99
50.5	0.0	18.55	50.5	1.0	17.55	50.5	0.8	17.86
52.5	0.0	18.60	52.5	1.3	17.82	52.5	0.8	18.04
54.5	0.0	18.45	54.5	0.9	17.58	54.5	0.0	17.89
56.5	0.0	18.76	56.5	0.1	17.90	56.5	0.0	18.11
58.5	0.0	18.74	58.5	0.1	17.82	58.5	0.0	17.98
66.5	0.0	18.48	66.5	0.1	17.76	66.5	1.4	17.95
68.5	0.0	18.51	68.5	0.0	17.72	68.5	0.9	17.99
70.5	0.0	18.60	70.5	0.5	17.75	70.5	0.3	18.05
72.5	0.0	18.23	72.5	0.3	17.66	72.5	0.0	18.03
74.5	0.0	18.44	74.5	0.2	17.71	74.5	1.0	18.06
76.5	0.0	18.55	76.5	0.0	17.74	76.5	1.2	18.07
78.5	0.0	18.63	78.5	0.3	17.79	78.5	0.8	18.08
80.5	0.0	18.69	80.5	1.2	17.81	80.5	2.4	18.10
82.5	0.0	18.85	82.5	1.0	17.90	82.5	1.3	18.19
90.5	0.0	18.84	90.5	2.5	17.88	90.5	0.5	18.23
92.5	0.0	18.85	92.5	2.0	17.85	92.5	0.3	18.22
94.5	0.0	18.86	94.5	2.2	17.82	94.5	0.2	18.24
96	0.0	18.87	96	1.6	17.78	96	0.0	18.26

^{*}Relative to top of well casing.

^{**}Free-phase petroleum was gauged intermittently in influence well MW-19.



organic vapors (approximate equivalent of 15.82 gallons of gasoline) were recovered during the course of the 96-hour event conducted June 25, 2018 through June 29, 2018. A total of 282.38 pounds of gasoline vapors (approximate equivalent of 45.18 gallons of gasoline) were recovered as emissions during the two events. Off-gas treatment was provided during the events as directed by the SCDHEC Project Manager.

7. Free Product Thickness Table

Free Product Thickness Table (Event 1) – Attached

Free Product Thickness Table (Event 2) - Attached

8. AFVR Event Map

Figure F-8 AFVR Map (Event 1) – Attached

Figure F-8 AFVR Map (Event 2) - Attached

9. Recovery Water Disposal

The disposal manifests and weigh tickets for the recovery water generated during the June 18-22, 2018 and June 25-29, 2018 AFVR Events are included in Appendix G.

SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 1) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

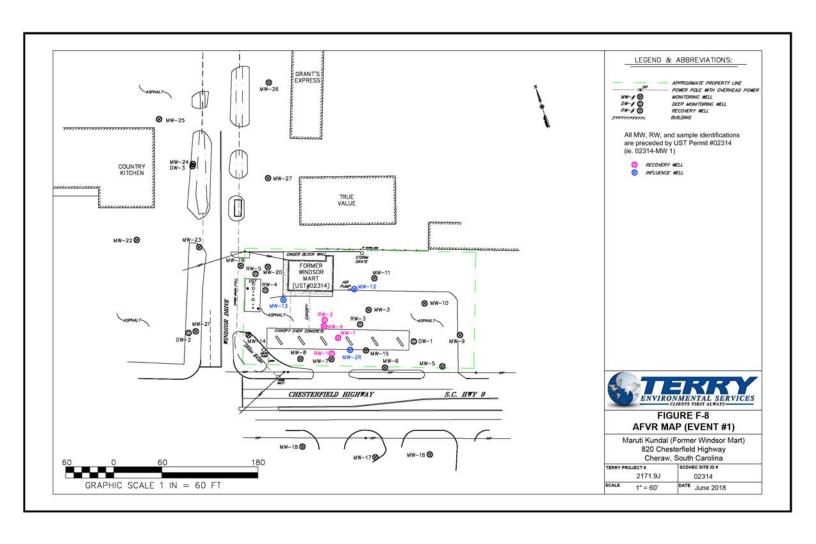
JUNE	18-22.	2018
	10	

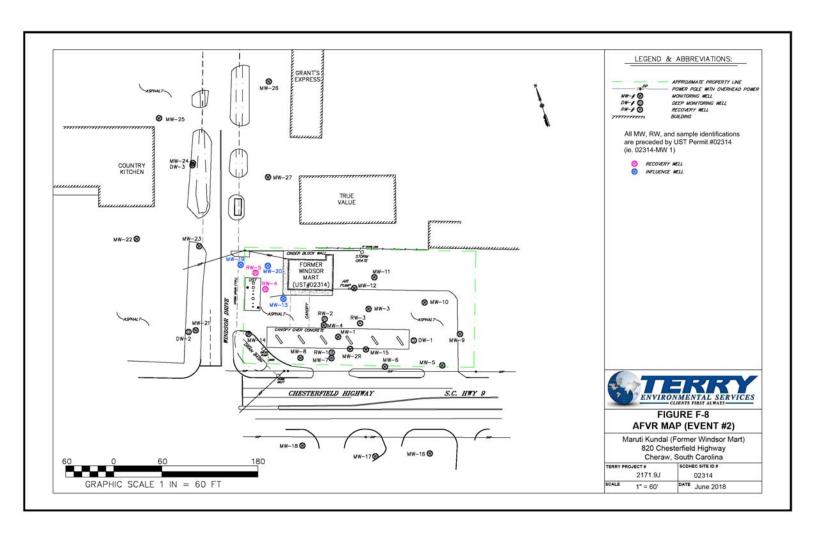
Well #	1	Depth to Product	Depth to Water	Product Thickness
MW-1	Initial	18.24	19.85	1.61
IVI VV - I	Final	n/a	18.90	n/a
MW-4	Initial	17.83	19.64	1.81
171 77 -4	Final	n/a	18.51	n/a
RW-1	Initial	18.72	18.96	0.24
KW-1	Final	n/a	19.02	n/a
RW-2	Initial	17.65	19.45	1.80
IX VV - 2	Final	n/a	18.37	n/a
MW-2R	Initial	n/a	18.95	n/a
IVI VV -2IX	Final	n/a	19.03	n/a
MW-12	Initial	n/a	17.59	n/a
WIW-12	Final	n/a	17.85	n/a
MW-13	Initial	n/a	17.74	n/a
101 00 -113	Final	n/a	17.98	n/a

SECTION F-7 FREE PRODUCT THICKNESS TABLE (EVENT 2) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

JUNE	25-29	2018
	43-47	2010

Well #	-	Depth to Product	Depth to Water	Product Thickness
RW-4	Initial	17.04	17.13	0.09
IX VV -4	Final	n/a	18.90	n/a
RW-5	Initial	n/a	17.35	n/a
KW-3	Final	n/a	17.91	n/a
MW-13	Initial	n/a	17.88	n/a
WW-13	Final	n/a	18.87	n/a
MW-19	Initial	17.30	17.32	0.02
W -19	Final	17.62	17.78	0.16
MW-20	Initial	n/a	17.40	n/a
171 77 -20	Final	n/a	18.26	n/a





G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, TERRY installed two recovery wells and conducted two subsequent 96-hour AFVR events in accordance with the SCDHEC UST QAPP, Revision 3.1.

On May 30, 2018, two (2) four-inch recovery wells (RW-4 and RW-5) were installed in the source area as directed by the SCDHEC Project Manager. Subsequently two (2) separate 96-hour AFVR events were performed consecutively at the subject site June 18, 2018 through June 29, 2018. Prior to the June 18-22, 2018 event, free-phase product was measured in MW-1 (1.61 feet), MW-4 (1.81 feet), RW-1 (0.24 feet), and RW-2 (1.80 feet). Upon completion of the event, no free-phase product was measured. Prior to the June 25-29, 2018 event, free-phase product was measured in MW-19 (0.02 feet) and RW-4 (0.09 feet). Upon completion of the event, free-phase product was measured in MW-19 (0.16 feet). A total of 282.38 pounds of gasoline vapors (approximate equivalent of 45.18 gallons of gasoline) were recovered as emissions during the events.

The AFVR events were successful at recovering contaminant mass and reducing free-phase product thicknesses in the monitoring/recovery wells. Per SCDHEC correspondence dated June 7, 2018 the subject site will undergo active corrective action to mitigate the petroleum impact. In the interim, TERRY recommends to conduct a source area gauging event followed by additional 96-hour AFVR events on the monitoring/recovery well network in the source area.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable

5. Tier 2 Risk Evaluation

Not Applicable



I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Potentiometric Data - Not Applicable

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Not Applicable

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4 Groundwater CoC Map - Not Applicable

4. Site Potentiometric Maps

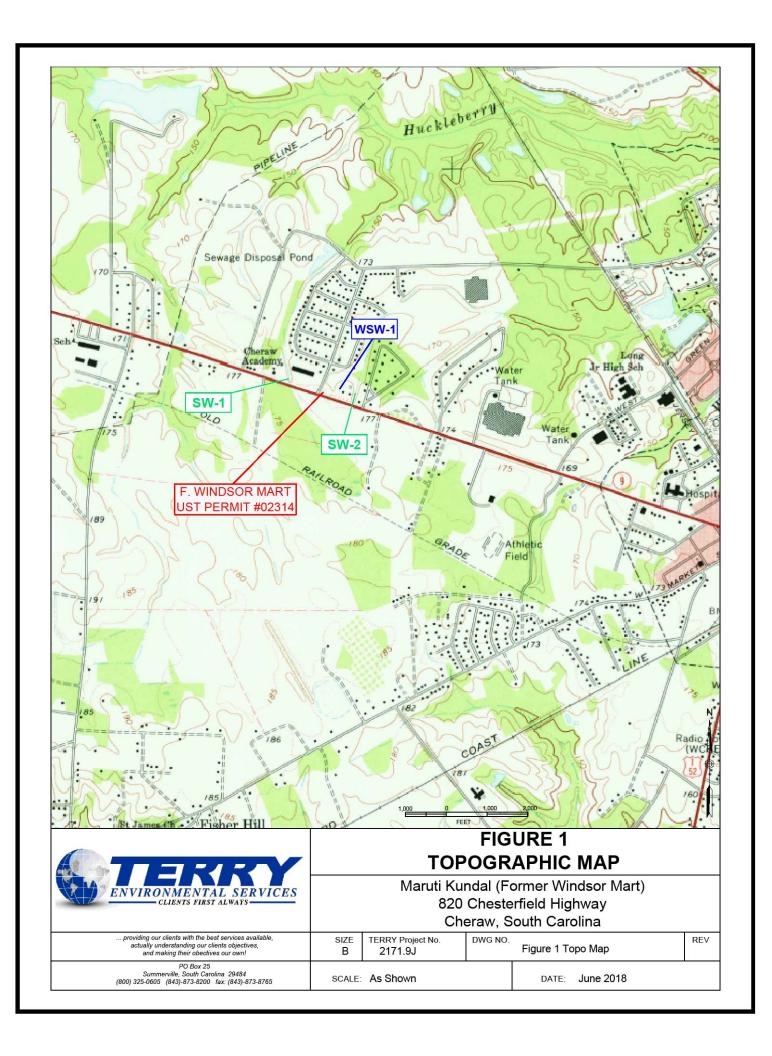
Figure 5 Site Potentiometric Map – Not Applicable

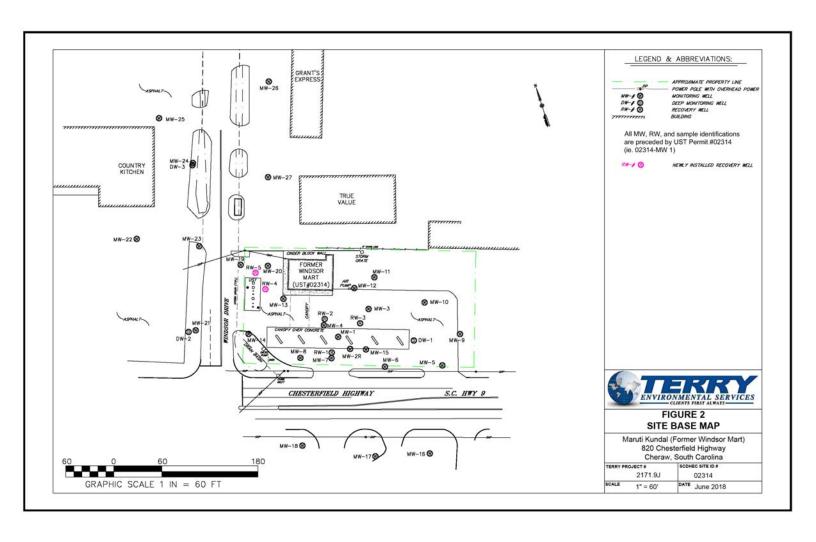
5. Geologic Cross Sections

Figure 6 Geologic Cross Sections - Not Applicable

6. Predicted Migration and Attenuation of CoCs

Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable





K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

Not Applicable

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

- 5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms
- 6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifests
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data (Not Applicable)

APPENDIX C

Tax Map (Not Applicable)

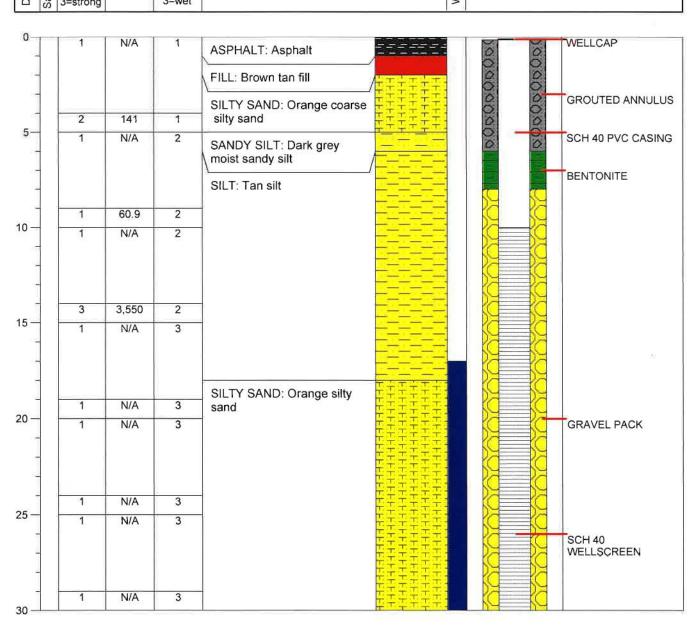
APPENDIX D

Soil Boring/Field Screening Logs (Not Applicable)

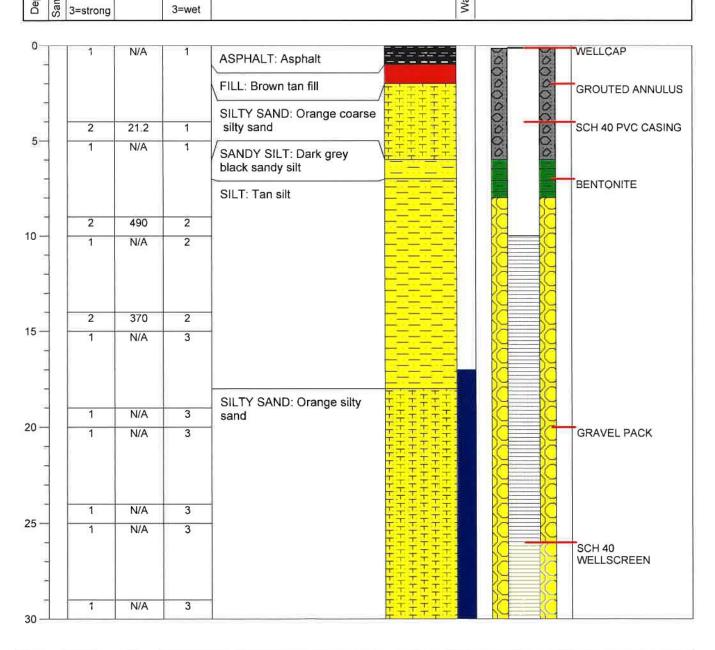
APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms

	77	3RK	Cli	VIRONMENTAL SERVICES ients First Always TM WTERRYENVIRONMENTAL COM	WELL LOG MONITORING WELL #02314-RW4 TERRY PROJECT: MARUTI KUNDAL PROJECT LOCATION: CHERAW, SC				
TERRY PROJECT #: 2171.9J SCDHEC SITE ID #: 02314 CLIENT: JACKSON OIL FIELD PERSONNEL: TRAVIS DARDEN START DATE: 05/30/2018 FINISH DATE: 05/30/2018 DRILLING COMPANY: GEOLOGIC EXPLORATION DRILLER: BRIAN THOMAS (CERT# 1465B) DRILLING METHODHOLLOW STEM AUGER							HOLE DIAMETER: 8" CASING DIAMETER: 4" SCREEN DIAMETER: 4" TOP OF CASING ELEVATION: 172.02 WATER LEVEL: 17 EASTING: 518.0843 NORTHING: 266.3911 DEVELOPMENT: PUMPING/SURGING		
III	Casing Interval 0-10.0 FT TOC Bentonite Interval 6.0-8.0 FT BGS Filter Interval 8.0-30.0 FT BGS Screen Interval 10.0-30.0 FT TOC Grout Interval 0-6.0 FT BGS Filter Material SAND								
Tol Zor	Odor =none =slight F =strong	OVA Reading	Moisture 1=dry 2=moist 3=wet	Lithology		Water Level	Well Construction		



Clients First Always TM WWW TERRYENVIRONMENTAL COM	MELL LOG MONITORING WELL #02314-RW5 TERRY PROJECT: MARUTI KUNDAL PROJECT LOCATION: CHERAW, SC			
TERRY PROJECT #: 2171.9J SCDHEC SITE ID #: 02314	HOLE DIAMETER: 8" CASING DIAMETER: 4"			
CLIENT: JACKSON OIL	SCREEN DIAMETER: 4"			
FIELD PERSONNEL: TRAVIS DARDEN	TOP OF CASING ELEVATION: 172.04			
START DATE: 05/30/2018 FINISH DATE: 05/30/2018	WATER LEVEL: 17			
DRILLING COMPANY: GEOLOGIC EXPLORATOIN	EASTING: <u>529.8844</u>			
DRILLER: BRIAN THOMAS (CERT# 1465B)	NORTHING: <u>287.6165</u>			
DRILLING METHODHOLLOW STEM AUGER	DEVELOPMENT:PUMPING/SURGING			
Casing Interval 0-10.0 FT TOC Bentonite Interval 6.0-8.0 F	T BGS Filter Interval 8.0-30.0 FT BGS			
Screen Interval 10.0-30.0 FT TOC Grout Interval 0-6.0 FT	BGS Filter Material SAND			
Per Odor 1=none OVA 1=dry 1=dry 2=slight Reading 2=moist Lithology	Well Construction			





Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

PROMOTE PROTECT PROSPER		2600 80	iii Street, Columbia, SC 29201-1708; (803) 898-4300							
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: UMW-27038							
Name: JACKSON OIL COMPAN	VΥ		UMW-27038							
(last)	(firs	it)	8. USE: RECOVERY							
Address: 755 4TH STREET			☐ Residential ☐ Public Supply ☐ Process							
City: HARTSVILLE State: SC Zip: 29550			☐ Irrigation ☐ Air Conditioning ☐ Emergency							
SIN HARTSVILLE SIEDS SC	L.p. 23	,550	☐ Test Well ☐ Monitor Well ☐ Replacement							
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 05/30/18							
2. LOCATION OF WELL: SC CO	DUNTY: CHES	TERFIELD	ft. Date Completed: 05/30/18							
Name: WINDSOR MART			10. CASING: A Threaded Welded							
Street Address: 820 CHESTERFI	ELD HIGH	WAY	Diam.: 4 INCH Height: Above Below							
City: CHERAW	Zip: 29520		Type: PVC Galvanized Surfaceft_							
	_,,		Steel Other Weight — Ib./ft.							
Latitude: 34° 41′ 50.63″ Longitude	: 79° 55' 27.	14"	4.0 in. to 10.0 ft. depth Drive Shoe? Yes No							
			in. to ft. depth							
	BLIC SYSTE		11. SCREEN: Type: SCH 40 PVC Diam.: 4 INCH							
02314	RW-4		Slot/Gauge:010							
4. ABANDONMENT: ☐ Yes ☑	No		Set Between: 10.0 ft. and 30.0 ft. NOTE: MULTIPLE SCREENS							
			ft. andft. USE SECOND SHEET							
Grouted Depth: fromf	t. to	ft.	Sieve Analysis ☐ Yes (please enclose) ☑ No							
	*Thickness	Depth to	12. STATIC WATER LEVEL 17.5 ft. below land surface after 24 hours							
Formalion Description	of Stratum	Bottom of	13. PUMPING LEVEL Below Land Surface.							
		Stratum	ft. after hrs. Pumping G.P.M.							
RED SILTY CLAY	5.0	5.0	Pumping Test: Yes (please enclose) No							
DY A CIV OUT THE GAND			Yield:							
BLACK SILTY SAND	1.0	6.0	14. WATER QUALITY							
DROUGH TV CANDY CLAY	10.0	16.0	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No							
BROWN SILTY SANDY CLAY	10.0		Please enclose lab results.							
TAN SILTY SAND	8.0	24.0	15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No							
TANSIETTSAND	8.0	24.0	Installed from 8.0 ft. to 30.0 ft.							
ORANGE SAND	6.0	30.0	Effective size 1.43 Uniformity Coefficient 1.30							
	0.0	50.0	16. WELL GROUTED? [7] Yes [] No							
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other							
			Depth: From 0.0 ft. to 6.0 ft.							
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction							
			Туре							
			Well Disinfected ☐ Yes ☐ No Type: Amount:							
			18. PUMP: Date installed: Not installed □							
			Mfr. Name: Model No.:							
			H.P Volts Length of drop pipe ft. Capacily gpm							
			TYPE: Submersible Det (shallow) Turbine							
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal							
			19. WELL DRILLER: BRIAN THOMAS CERT. NO.: 01465							
			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)							
			STATESVILLE, NC 28625							
*Indicate Water Bearing Zones			Telephone No.: 704-977-7696 East No.: 704-977-0249							
The state of the s			Telephone No., 704-872-7686 Fax No.: 704-872-0248 20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under							
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.							
5. REMARKS:			,,							
BENTONITE SEAL FROM 6.0 TO 8.0										
FEET			Signed Stree Ohro-							
			Signed: Date: 00/03/18							
6 TYPE: O Mid Bolon		Darod								
6. TYPE: Mud Rotary		Bored Driven	If D Level Driller, provide supervising driller's name:							
☐ Cable tool ☐ Other		DIIVeri								
_ Sabe too	AUGER									



Water Well Record **Bureau of Water**

PROMOTE PROTECT PROSPER		2600 Bu	Ill Street, Columbia, SC 29201-1708; (803) 898-4300						
1. WELL OWNER INFORMATION:			7. PERMIT NUMBER: LIMIN 27029						
Name: JACKSON OIL COMPA			UMW-27038						
(last)	(fire	st)	8. USE: RECOVERY						
Address: 755 4TH STREET			☐ Residential ☐ Public Supply ☐ Process						
City: HARTSVILLE State: SC	Zip: 29	9550	☐ Irrigation ☐ Air Conditioning ☐ Emergency						
			☐ Test Well ☐ Monitor Well ☐ Replacement 9. WELL DEPTH (completed) Date Started: 05/30/18						
Telephone: Work: 2. LOCATION OF WELL: SC CO	Home:	TEL PETER D							
Name: WINDSOR MART	JONIT: CHES	STERFIELD							
Street Address: 820 CHESTERF	EL D HIGH	WAV	Diam.: 4 INCH Height; Above Below						
City: CHERAW	Zip: 29520	WAI	Type: PVC Galvanized Surface						
	27520		Steel Other Weight — Ib./ft.						
Latitude: 34° 41′ 50.63" Longitude	≆: 79° 55′ 27.	14"							
3. PUBLIC SYSTEM NAME: PL	BLIC SYSTE	M NUMBER:	11. SCREEN:						
02314	RW-5		Type: SCH 40 PVC Diam.: 4 INCH Slot/Gauge: .010 Length: 20.0 FEET						
4. ABANDONMENT: ☐ Yes ☑	No		Set Between: 10.0 ft. and 30.0 ft. NOTE: MULTIPLE SCREENS						
			ft. and ft. USE SECOND SHEET						
Grouted Depth: from			Sieve Analysis						
Formation Description	*Thickness of	Depth to Bottom of	12. STATIC WATER LEVEL17.5 ft. below land surface after 24 hours						
7 official of Becomplicit	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface.						
RED SILTY CLAY	5.0	5.0	ft. after hrs. Pumping G,P,M.						
			Pumping Test: ☐ Yes (please enclose) ☐ No Yield:						
BLACK SILTY SAND	1.0	6.0	14. WATER QUALITY						
DROWN CIT TWO LANDY OF AN		160	Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No						
BROWN SILTY SANDY CLAY	10.0	16.0	Please enclose lab results.						
TAN SILTY SAND	8.0	24.0	15. ARTIFICIAL FILTER (filter pack)						
	0.0		Installed from 8.0 ft. to 30.0 ft. Effective size 1.43 Uniformity Coefficient 1.30						
ORANGE SAND	6.0	30.0	Effective size 1.43 Uniformity Coefficient 1.30						
			16. WELL GROUTED? [7] Yes [] No						
			☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other						
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction						
			Type direction						
			Well Disinfected ☐ Yes ☐ No Type: Amount:						
			18. PUMP: Date installed: Not installed _						
			Mfr. Name: Model No.:						
			H.P Volts Length of drop pipe ft. Capacity gpm TYPE: Submersible Jet (shallow) Turbine						
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal						
			19. WELL DRILLER: BRIAN THOMAS CERT. NO.: 01465						
			Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one)						
			STATESVILLE, NC 28625						
*Indicate Water Bearing Zones			Telephone No.; 704-872-7686 Fax No.: 704-872-0248						
3			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under						
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.						
5. REMARKS:									
BENTONITE SEAL FROM 6.0 TO 8.0 FEET			Signed:						
			Signed:						
			Well Driller						
6. TYPE: ☐ Mud Rotary ☐ Jetted		Bored	If D Level Driller, provide supervising driller's name:						
☐ Dug ☐ Air Ro ☐ Cable tool ☑ Other	•	Driven							
Unio	AUGER								



Well Development Data Verfication Form Underground Storage Tank Management Division

Facility Name: former wilds	500 MAA Site ID#: 00314						
Date: 6) 05) 19	Field Personnel: T D p. Lx						
Drilling Company: Geologic Expl	The second secon						
Driller's Certification Number: 1465 B	256D Weather Conditions: D/C 99						
and the same of th	Well Development Method						
Surge Block * Bailing can be combined to	Submersible Pump Air Lifting O with any of the above methods, but not utilized alone for development.						
	Quality Assurance						
pH meter Conductiv							
serial no. serial no.	serial no. serial no.						
pH=4.0 4, 0 standard	4,45 NTU=0.0 G, O						
pH=7.0	NTU=1.0						
pH=10.0	NTU=10.0						
	Drilling Method						
Hollow Stem Augers	Solid Flight Augers O Direct Push						
Air Rotary O	Mud Rotary O Sonic O						
Monitoring Well ID# RW - 4 Well Casi	ion Diameter U inches Boschele Diameter & inches						
	ing Diameter inches Borehole Diameter inches						
Depth to Ground Water (DGW) 17,	1						
Total Well Depth (TWD)	, O ft. Screen Interval 30 ft. to 10 ft.						
Length of water column (LWC=TWD-DGW)	2 57 ft. Type of Drilling Fluids used: NA						
Total Gallons of Water Removed:	gals. Drilling Fluids recovered gals.						
Time (military)	1130 1134 1138 1191 1145 1147						
pH (s.u.)*	6.53 6.47 6.39 6.37 6.35						
Specific Conductivity (mmhos/cm)*	0.335 6.314 0.320 0317 0 311 0313						
Water Temperature (C)*	24 1 221 28 3 22 0 22,0 22,0						
Turbidity (NTU) *	999 510 210 910 15,1 7,1						
Physical Characteristics (color/odor)	or or or clay cl a						
Water Level Measurement (ft) from TOC	BAB 1818 3860 2680 28 302301						
Total Well Depth (ft) from TOC	30,0 30,0 30,0 30,0 30,6 30,0						
Cumulative Gallons Removed	O gals 4 gals 8 gals 12 gals 16 gals 20 gals gals						
110 C W & St. 10 M At Manager 1100	ter turbidity is ≤ 10 NTU and all parameters are ± 10%.						
Detailed description of Well Development pro	ocess: Surge block then pump						
high them rates							
IDW into tanker							
Driller Signature:	Date: 6/05/18						
EC 2099 (04/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL							



Well Development Data Verfication Form Underground Storage Tank Management Division

1417-1417-1417-1417-1417-1417-1417-1417									
Facility Name: For Winds	- MAA Site ID#: 02314								
Date: 60s/18	Field Personnel: T Dordan								
Drilling Company: Terry Explans	Driller's Name: B. Thomas T. Darde								
Driller's Certification Number 3565	Weather Conditions: P/c 95								
Well Development Method									
Surge Block Submersible Pump Air Lifting									
* Bailing can be combined with any of the above methods, but not utilized alone for development.									
Quality Assurance									
pH meter Conductivity me	eter Temperature meter Turbidity meter								
serial no serial no	serial no serial no								
· · · · · · · · · · · · · · · · · · ·	NTU=0.0 () ()								
pH=7.0 pH=10.0	NTU=1.0								
pn=10.0	NTU=10.0								
1540	Drilling Method								
Hollow Stem Augers S	Solid Flight Augers O Direct Push O								
Air Rotary	Mud Rotary O Sonic O								
Monitoring Well ID# R WS Well Casing Dia	iameter 4 inches Borehole Diameter 8 inches								
Depth to Ground Water (DGW) \7.35	ft. Screen Length/Slot Size 20 ft./ 0.0:0 in.								
Total Well Depth (TWD) 30.0									
D.16									
zerigar or mater dolarim (zvvo 1115 bevv)	ft. Type of Drilling Fluids used:								
Total Gallons of Water Removed: 2 /	gals. Drilling Fluids recovered gals.								
Time (military)	55 1159 1203 1206 1210 1214 1216								
pH (s.u.)*	37 639 647 6.35 6.35 6.37 6.37								
Specific Conductivity (mmhos/cm)*	341 6.37 0.318 0.319 0.317 0.316 0.317								
Water Temperature (C)*	4,2 22,0 22.1 22.1 22.1 22.1 22.1								
Turbidity (NTU) *	95 640 500 207 159 15,1 67								
Physical Characteristics (color/odor)	or or cly u d d d								
Water Level Measurement (ft) from TOC	7.35 18 90 28,8 28,8 28,8 31 28,81								
Total Well Depth (ft) from TOC	0 30.0 30.0 30.0 30.0 30.0 30.0								
PARENT PLANE AND AND AND AND AND AND AND AND AND AND	D gals 4 gals 6 gals 1 (gals 16 gals 20 gals 24 gals								
* Development is completed once groundwater tur									
Detailed description of Well Development process:	si Surge block and pump								
ION to to Nker									
ION to to Noker									
N	Tight an								
Driller Signature:	Date: 605 19								



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

.	./-1						
Serial Number: <u>VWKAUMKJ</u>	6/05/18 Date/Time: 1/27	Inspector: 11					
		2					
Solution Manufacturer: Aurical	Lot Number: 1706643 E	xpiration Date: 6730 19					
Solution Value	Instrument Reading	Accuracy					
pH: 4.00	4,00	± (
Conductivity: 4.49 mS/cm	4,47 mS/cm	± mS/cm					
Turbidity: 0.0 NTU	NTU	± NTU					
Standard Reading	Instrument Reading	Accuracy					
NIST-Traceable Thermometer: <u>33.9</u> °C	_∂3,9.00	± ₺ ℃					
<u>(</u>	QAPP Acceptance Criteria						
Field Parameter	Accur	acy					
Temperature	±1°C against	an NIST-traceable thermometer					
Specific Conductance	10% of each s	tandard used					
pH	$\pm 0.2~pH$ units	± 0.2 pH units of stated buffer value					
Turbidity	10% of each s	tandard used					
Ins	spector's Maintenance Notes						



HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	6 25 18 Date/Time: 13 10	Inspector: To
Solution Manufacturer: Aurical	Lot Number: 1701643	Expiration Date: 6)36/15
Solution Value	Instrument Reading	<u>Accuracy</u>
pH: 4.00	4,00	± P
Conductivity: 4.49 mS/cm	4.45 mS/cm	±
Turbidity: 0.0 NTU	O, NTU	± 0.) NTU
Standard Reading	Instrument Readin	g <u>Accuracy</u>
NIST-Traceable Thermometer: 24.) °C	24.1 ℃	± ♦ %
Ω	APP Acceptance Criteria	
Field Parameter	Acc	uracy
Temperature	$\pm I$ °C again.	st an NIST-traceable thermometer
Specific Conductance	10% of each	h standard used
pH	$\pm 0.2~pH~um$	its of stated buffer value
Turbidity	10% of each	h standard used
Ins	pector's Maintenance Note	s
·		

APPENDIX F

Aquifer Evaluation Forms (Not Applicable)

APPENDIX G

Disposal Manifests

A	NON-HAZARDOUS WASTE MANIFEST	Generator ID Number Terry Environmental	[2	Page 1 ol 3 Ja 1 D-	06081563		The state of the s	racking Num 563-1	ber	
	Generator's Name and Mail Generator's Phone:	755 South 4th Hartsville SC		Man 820	raio's Sile Addr ad Kindar (F. Win Chesterfield Hwy raw, 9C. 29520		than making addin			
	B. Transporter 1 Company Na						USEPAID	lumber		
1	JBR Environr	nental Services	(864) 583-27	717			SCROOK	00435	8	
	7 Transserier 2 Company Na	itte					USEPARD	fumber		
	8. Designated Facility Name at JBR Environm 210 Alice St. Spartanburg, Facility's Phone:	mental Services	3-2717				USEPA IO		WET 8 5,22	20
					10. Con	namers	11. Total	12. Unit	-	
ŀ	9. Waste Shipping Nam	ne and Description			No.	Тура	11.15.2	12.01		
GENERATOR -	Non-DOT /No Soil Cutting	on-RCRA Regulated N	laterial		7	DM	4,900	Р		
- GENE	2									
	3								2/1	`
1 376	•				1	1		-4	2.614	
		ons and Additional Information			1	<u></u>		1		
ŀ	1.) Profile # TE-81	17905					(Tr	uck Nu	ımber) 🧟	24
	2.) Profile # 3.) Profile #						/T	'6 a		
	4.) Profile #						(ту	pe is A	pplicable	וט (
1	14. GENERATOR'S/OFFERO marked and labeled/biass	OR'S CERTIFICATION: I hereby declars to rded, and are in all respects in proper con	hat the contents of the co	nsignment are full fing to applicable i	and accurately d	lescribed abo	ve by the proper st	pping name	, and are classified,	packaged,
*	Generalor's Otions's Printed			S gratu	7	7	asa	12.1	1061	11/8 July 1/10
INT	15. International Shipments	Or sort to U.S.		Export from U.S.		eniny/exil _	1			
_	Transporter Signature (for est				Date le	savang U.S.				
SPORTER	16. Transporter Advinosited; Transporter 1 Printed/Typed N			Signatus		_		_	Month	Day Year
ě	Tim	111 1141		1	TI	110.			16 19	8118
S	Transporter 2 Printed/Typed N			Signatur	0	wy				Day Year
THAN		nevo.		1	- 0				1 1	1
A	17. Discrepancy									
1	17a Discrepancy Indication S	C1C2 Duantity	Type		Residue		Partial Re	jection	□ Full	Rejection
1					Vanical Referenc	a Number				
Ė	17b. Alternate Facility (or Gen	eratori			The Property	- HUNGER	USEPAD	Number		
ä	Position and Control									
FA	Faculty's Phone:									
1	17c. Signature of Alternate Fe	scility (or Generator)							Month	Dr. Year
DESIGNATED FACILITY							-11			
1 2										
1	18. Designated Facility Owne	r or Operator Certification of receipt of ma	ulerials covered by the m		Contract of the last of the la				12 7/	
4	Printed/Typed Name			Signatu	1					Day Year
1	O TURON	9			1 1				14	110



Non Honordous Manifest West W.		Numb					
Non-Hazardous Manifest: Waste Water	N						
Generator's EPA ID# (if applicable):	Waste ID Nur	mber:					
Generator's Name and Mailing Address:	Phone ()	07314				
820 chester field things		UST-	02314				
cheraw. SC	P O #:	71	-1 0 -				
			4	71.95			
3. Agent of Generator and Mailing Address: Terry Environ mental Sarolces	Phone () 843 - 873 - 9200						
Summerville, SC	PO#: 25 517-488-4931						
4. Transporter Company Name:			21.0	100~1/2/			
	Crek's S.	Phone ()				
611 old Mt. Holly Rd	CHERS 3						
Truck & Trailer License Number:							
5. Transporter U.S. EPA ID#:							
		11872					
Facility Name and Site Address: US Water Recovery		failing Addres	J.	Phone: (843) 797-3111			
511 Old Mt. Holly Rd.		Water Recov Old Mt. Holly		Fax: (843) 797-1884			
Goose Creek, SC 29445		se Creek, SC 29445					
7 Facility U.S. EPA ID#:							
Start Level: End Level:		Total Gallons		Tank Number			
8. U.S. DOT Description	Con	tainer	Unit	Quantity			
	No.	Туре		Quantity			
a. Non-Hazardous, non-regulated waste water	107	UT	GHL	4262			
				1,200			
	-						
	4						
9. Generator's Certification: I hereby declare that the contents of this of	consignment are	not hazardous i	by definition or list	ing and are fully and accurately described			
above by proper shipping name and are classified, packed, marked	and labeled, and	are in all resp	ects in proper con	dition for transport by highway according			
to applicable international and national government regulations and tare as represented by the description contained on the Waste Profile	Form previously	ate of South Ca	arolina. I further ce	rtify that the contents of this consignment			
Printed/Typed Name: Ryan Palmor Signature:	Rista	RA	approved by the	Date: 6 1910			
10. Transporter Acknowledgement of Receipt of Materials	1777	Jaco		6/////			
Printed/Typed Name: Signature:	Med	18	V	Date: 6 . 19 48			
11. Discrepancy Indication space:	- Comp		/				
12. Facility Owner or Operator: Certification of Receipt of Materials	$\overline{}$						
Printed/Typed Name: Date / 10 15							
MANL GOODSOU	11-1	2 Show	roll())	Date 6-19-18			
White - Facility Yellow - Office	e Pink	- Transpo	rter Blue	e - Generator			

11042880	The CAT Scale Company THE CAT SCALE GUARANTEE
TICKET NUMBER	The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.
3 100	
	WEIGH WHAT WE SAY OR WE PAY® If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will.
CAT	(1) Reimburse you for the cost of the green which the green wh
YA'-	
SCALE SCALE	believe our scale was correct.
ERTIFIED	IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
UTOMATED *	
Section of the sectio	 Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee
RUCK	MMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.
CALE	The state of the same will be the same transfer and the same of th
T SCALE COMPANY BOX 630	*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are separated weights.
LCOTT, IA 52773	and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.
3) 284-6263 w.catscale.com	
开始降 高速55	DATE: STEERAXLE 10520 15
THE SHE	
s s	DRIVEAXLE 14320 15
UBLIC WEIGHMASTER'S	TION: ILUT TRAVEL CENTER TRAILERAXLE 9280 16
CERTIFICATE OF	I-95 AND I-53 EVIT 100
WEIGHT & MEASURE	FLORENCE SC GROSS WEIGHT 120 15
THE WALL STORY	This is to certify that the following described masshards
	public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.
	y and an an an an an an an an an an an an an
IMPRINT SEAL HERE	
(IF APPLICABLE)	
	LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHER REIGHT ALL KINDS
For the second	GODDEN E
N. D. Co. Complex and	COMPANY TRACER # TRACER
NUMBER -	FEE WEIGHER SIGNATURE TICKET # OF
	TICKET # OF FULL'S WEIGH (IF REWEIGH)
MER COPY	The state of the s
The state of the s	© CAT Scale* Reg 3063.1



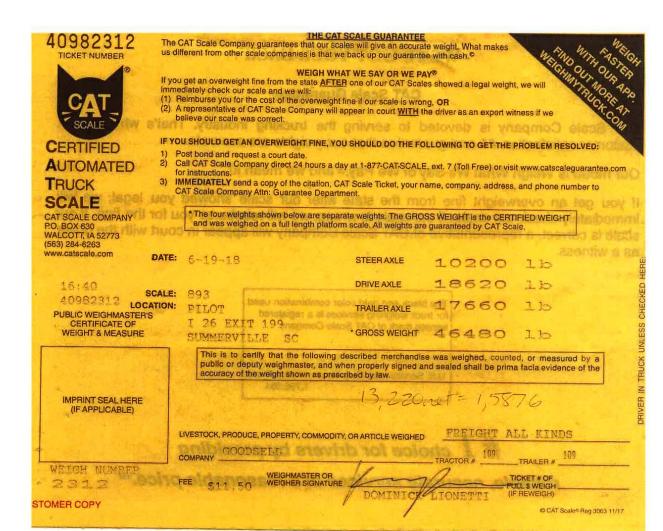
Water Recovery

Mar Harris M. W. L									
Non-Hazardous Manifest: Waste Water	or Drums	Num	ber:						
Generator's EPA ID# (if applicable):		Waste ID	Number:						
Generator's Name and Mailing Address:		Phone	1						
Fermer windsor Mart		THORIC	, 68	T-02314					
820 chesterfield HWY	P O #:								
Cheraw, 50 2171.95									
Terry Environmental Services Phone () 843-873-8260									
FU#, Z									
50 mmervilles SC 4. Transporter Company Name:									
4. Transporter Company Name: Foodsell Transport Foose C	reek, sc	Phone	()						
611 Old Mt. Holl's Rd. Truck & Trailer License Number:									
5. Transporter U.S. EPA ID#;									
6. Facility Name and Site Address:		Mailing Add	ress:	Phone: (843) 797-3111					
US Water Recovery 511 Old Mt. Holly Rd.	U	S Water Red	covery	Fax: (843) 797-1884					
Goose Creek, SC 29445	1000000	1 Old Mt. Ho se Creek, Si							
7 Facility U.S. EPA ID#:		-	- 550	T.					
Start Level: End Level:		Total Gallo	ons:	Tank Number					
				TO IN HUILDE					
8. U.S. DOT Description	Cor	tainer	Unit	Quantity					
	No.	Туре		Godniny					
a. Non-Hazardous, non-regulated waste water	109	VT	Bal	1587					
	2.0			42 52					
	_		+===						
2 200	-								
The Date of the Control of the Contr									
	.1/2								
9. Generator's Certification: I hereby declare that the contents of this	consignment are	not hazardou	us by definition or	listing and are fully and accurately described					
above by proper snipping name and are classified, packed, marked	and labeled, an	d are in all re	spects in proper	condition for transport by highway asserting					
to applicable international and national government regulations and are as represented by the description contained on the Waste Profile	Form previously	submitted to	Carolina. I furthe	r certify that the contents of this consignment					
Printed/Typed Name: Ryan Palmer Signature:	PVIAN	111	mel	Date: 6/19/18					
10. Transporter Acknowledgement of Receipt of Materials	Ulland	0		6/61110					
Mike Carter									
11. Discrepancy Indication space:	V -								
12. Facility Owner or Operator: Certification of Receipt of Materials		^							
Printed/Typed Name: Mike Carter Signature:	Withe	Can	to	Date 6.19.18					
White - Facility Yellow - Office	o Dink	- Transr	oortor B	llug - Generator					

STOMER COPY

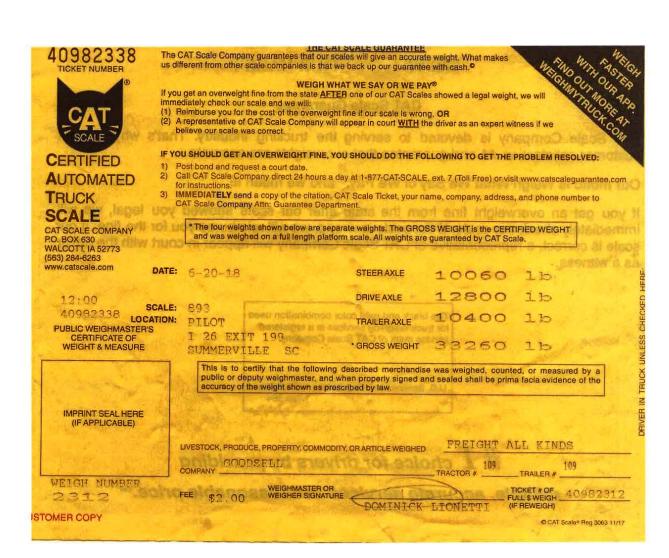
DRIVER IN TRUCK UNLESS CHECKED HERE

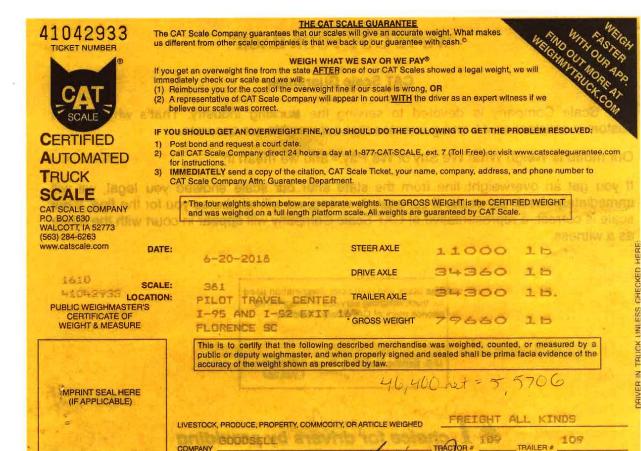
© CAT Scale Reg 3063 11/17





Non-Hazardous Manifest: Waste Water or	D=	Maranha						
Generator's EPA ID# (if applicable):		Number:						
(ii applicable).		Waste ID Num	ber:	27				
Generator's Name and Mailing Address:		Phone ()					
Fr Windsor Mart			1 0	ST 02314				
920 chester (: eld they		PO#:	l ;	2171.93				
3. Agent of Generator and Mailing Address:		Dh /						
Terry Enstronmental Service	es	Phone (13-873-8200				
Summerville, SC PO#: 25 517-488-4931								
4. Transporter Company Name: Good Sell Transport 6003e	Creek, SC	Phone ()					
611 old Mt. Holla Pl-								
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:								
		-						
 Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445 	Mailing Address: Phone: (843) 797-3111 US Water Recovery 511 Old Mt. Holly Rd. Fax: (843) 797-1884							
G0036 C166K, 3C 23443	Goos	e Creek, SC 29	445					
7 Facility U.S. EPA ID#:								
Start Level: End Level:		Total Gallons:		Tank Number				
8. U.S. DOT Description	Cont No.	ainer Type	Unit	Quantity				
a. Non-Hazardous, non-regulated waste water	170	1/	11)	5 FOA				
	10-7	E / (jal	2/5/0				
		-		The state of the s				
	-							
				1 347				
O Consented Continue to the co				# - T				
 Generator's Certification: I hereby declare that the contents of this con above by proper shipping name and are classified, packed, marked an to applicable international and national government regulations and the are as represented by the description contained as the Weste Parklet. 	laws of the Sta	are in all respec	its in proper	condition for transport by highway according				
are as represented by the description contained on the Waste Profile Fo	m previously s	ubmitted to and	approved b	y the Designated Facility.				
toxan talmer	Xuga.	1 (180)	u	Date: 6 /20 / 18				
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Date: / 20 / 8								
11. Discrepancy Indication space:								
12. Facility Owner or Operator: Certification of Receipt of Materials								
Printed/Typed Name:								
Mike Carter Signature: V	Who (lad	0	Date 6-20-18				
White - Facility Yellow - Office	Dink	Transport						





WEIGHMASTER OR WEIGHER SIGNATURE

© CAT Scale® Reg 3063 11/17

FEE A DES

WEIGH NUMBER

STOMER COPY

Water Recovery

Non-Hazardous Manifest: Waste Water or Drums Number:								
Generator's EPA ID# (if applicable):		Waste ID Numb	ber:					
2. Generator's Name and Mailing Address: Former Windsor mart 820 Chaster field thuy	11-060- mart 1051 02314							
CherawoSC		F O #.	2	171.95				
3. Agent of Generator and Mailing Address: Terry Environ mental Services Phone () 843-873-8200								
Summerville s SC PO#: 28 517.488-4931								
4. Transporter Company Name: Lood sell Trans Port Goode Creek, SC Phone () Ell Old Mt. Holly Rd Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:								
Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	U: 51	Mailing Address: Phone: (843) 797-3111 US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445						
7 Facility U.S. EPA ID#:								
Start Level: End Level:	End Level: Total Gallons: Tank Number							
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity				
a. Non-Hazardous, non-regulated waste water	102	UT	SAL	4866				
			7					
		<u> </u>						
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classifled, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form servicusly admitted to and approved by the Designated Facility.								
Printed/Typed Name: Ryan Palmor Signature: 944 100 Date: 6/2/18								
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Paul Hoodsol Signature: Paul Herrials Date: 6/3(1/8)								
11. Discrepancy Indication space:								
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature:	RI	hos	D)	Date 6-21-18				
White - Facility Yellow - Office	o Dink	- Transport	or Di	ue - Generator				



CERTIFIED **AUTOMATED** TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 www.catscale.com

12:06 3143045 SCALE: 3143045 COLATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state <u>AFTER</u> one of our CAT Scales showed a legal weight, we will

immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court <u>WITH</u> the driver as an expert witness if we

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

6-21-18 DATE:

STEER AXLE DRIVE AXLE

1 b 11800

254

KANGAROO EXPRESS TRAILER AXLE

I 26 EXIT 199B

* GROSS WEIGHT SUMMERVILLE SC

9840 16

14060

35700 1b

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSELL

TRACTOR A

DIANA

103 TRAILER A

16

WEIGH NUMBER 0428

WEIGHMASTER OR \$11WEIGHER SIGNATURE

ULL WEIGH (IF REWEIGH)

O CAT Scales Reg 3063 07/17

CUSTOMER COPY





CERTIFIED **AUTOMATED** TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

DATE: 17:54 SCALE:

314304 AFION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

Output

Description:

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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STEER AXLE 6-21-18

11960

254

KANGAROO EXPRESS

DRIVE AXLE TRAILER AXLE

33580 7 b 30700 16

I 26 EXIT 199B SUMMERVILLE

* GROSS WEIGHT

76240 16

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prime facia evidence of the accuracy of the weight shown as prescribed by law.

40,540 net = 4,8676

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

GOODSELL

TRACTOR #

WEIGH NUMBER

WEIGHMASTER OR WEIGHER SIGNATURE

DON

FULL WEIGH (IF REWEIGH) 31430

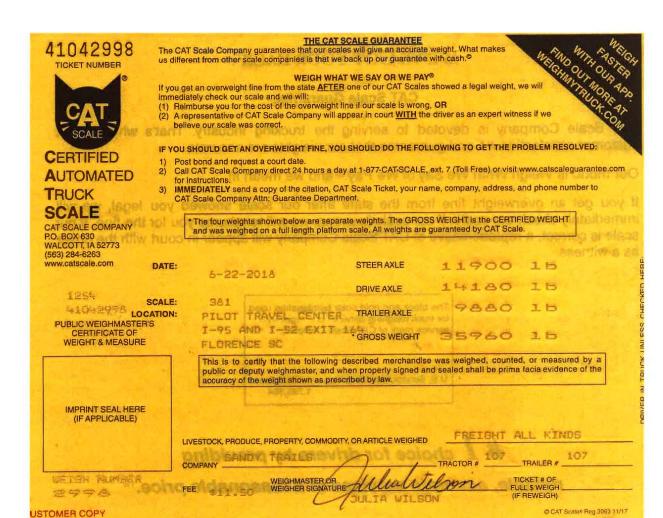
103

USTOMER COPY

CAT Scale® Reg 3063 07/17



Non-Hazardous Manifest: Waste Water or Drums Number:							
Generator's EPA ID# (if applicable):		Waste ID Number:					
1. deligitator 3 El A 10# (ir applicable).		waste in ivui	nuer.				
Generator's Name and Mailing Address:		Phone () 45T: 02314					
torner Windson Mart		2 y		1.025.1			
520 Chesterfield Huy.		P O #:	21-	11 07			
Cheraw, SC		21	11.95				
Agent of Generator and Mailing Address:	Phone (1 047	072 000				
Terry Environmental Services			1845	873 8200			
PO 130K 23		P O #:	CIAC	- 296 9912			
Summerville, SC		062	216 7112				
4. Transporter Company Name: Grand ASCII Town Son	1+	Phone ()				
4. Transporter Company Name: Good Scil Transpo 611 Old Mt. Ho	IN RL.	1120	15				
	119 1161						
Truck & Trailer License Number: 6005c Creek, St. 5. Transporter U.S. EPA ID#:							
o. Transporter o.o. ci Arion.							
6. Facility Name and Site Address:	Mailing Address: Phone: (843) 797-3111						
US Water Recovery	US Water Recovery						
511 Old Mt. Holly Rd. Goose Creek, SC 29445		Old Mt. Holly		Fax: (843) 797-1884			
No. Description Control Contro	Goos	se Creek, SC 2	9445				
7 Facility U.S. EPA ID#:							
Start Level: End Level:		Total Gallons:		Tank Number			
8. U.S. DOT Description	Con	tainer	Unit	Quantity			
*	No.	Туре					
a. Non-Hazardous, non-regulated waste water							
	INM	1/	1	T 121			
	10.1	11	501	5,104			
	-						
9. Generator's Certification: I hereby declare that the contents of this co	angianment are	not hazardoue l	by definition or	listing and are fifty and accumtate described			
 Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according 							
to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment							
are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.							
Printed/Typed Name: Hunter Miles (Agent) Signature Date: 6/22/18							
10. Transporter Acknowledgement of Receipt of Materials							
Printed/Typed Name: Mike Carter Signature: With Parts Date: 6.22.18							
11. Discrepancy Indication space:							
12. Facility Owner or Operator: Certification of Receipt of Materials							
Printed/Typed Name: Mike Confer Mike Color 6.22.18							
White English Valley Office	o Dink			National Association of Association			







CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

1612

THE CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will

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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

- Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions
- IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

SCALE:

6-22-2018

STEER AXLE

12220 1 b

381

DRIVE AXLE

1.5 34240

SECURIORS LOCATION:

TRAILER AXLE

32180

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

1-75 AND I-EZ EXIT 14 GROSS WEIGHT FLORENCE SC

78640 IB

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

42,680 net = 5,1246

107 TRAILER #

15

WETSER MANIETA 至中国

WEIGHMASTER OR WEIGHER SIGNATURE

PILOT TRAVEL CENTER

(IF REWEIGH)

CUSTOMER COPY

SCAT Scale® Reg 3063 11/17

Water Recovery Travis There 843 - 568 - 8823 There 843 - 568 - 8823

Non-Hazardous Manifest: Waste Water or	Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Num	nber:	
Generator's Name and Mailing Address:		Phone ()	
Jackson O:1 Co		P O #:		
		Γ Ο #.		
Agent of Generator and Mailing Address:		Phone (9	43) 573	8909
Terry Environmental		PO#:	0, 0	43
PO Box 25 Summon. 16 SC 244	84	F O #.		
4. Transporter Company Name: Tanhan	-	Phone ()	
GUODSELL TRANSPORT				
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address:		Mailing Address	s:	Phone: (843) 797-3111
US Water Recovery 511 Old Mt. Holly Rd.		S Water Recover 1 Old Mt. Holly		Fax: (843) 797-1884
Goose Creek, SC 29445	14.75	se Creek, SC 2		
7 Facility U.S. EPA ID#:	•			
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Co	ntainer	Unit	Ougatitus
o. o.o. Bot bescription	No.	Type	Onit	Quantity
a. Non-Hazardous, non-regulated waste water	1	1	69	H384
				1501
nn _e				
P.(1)				
Generator's Certification: I hereby declare that the contents of this co.	nsignment are	not hazardous h	ov definition or	listing and are fully and accurately described
above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the	ind labeled, ai	nd are in all respond	ects in proper of	condition for transport by highway according
are as represented by the description contained on the Waste Profile Fo	orm previous	y submitted to an	d approved by	the Designated Facility.
Printed/Typed Name Travis Darder (rep) Signature	0	200		Date: 6/36/18
10. Transporter Acknowledgement of Receipt of Materials Printed (Med Name) Signature:	1-)	M	100	Date:
1111112111111112128		7 MM		030/28
11. Distrepation Indication space		1100		1 7
12. Facility Owner or Operator: Certification of Receipt of Materials	J. /	D (
Printed/Typed Name: Au L Joseph Signature:	2	Horold		Date 6-86-18
White - Facility Yellow - Office	Pin	k - Transpo	rter B	lue - Generator

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

740

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FLORENCE

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IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: STEER AXLE 10140 15 5-26-2018 DRIVE AXLE 16380 SCALE: 361 41043088 LOCATION: 7 10 TRAILER AXLE PILOT TRAVEL CENTER PUBLIC WEIGHMASTER'S I-95 AND I-52 EXIT **GROSS WEIGHT** 16

> This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER

3088

CERTIFICATE OF

WEIGHT & MEASURE

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

TRANSFORZ COMPANY

WEIGHMASTER OR WEIGHER SIGNATURE

TRAILER # TICKET.# OF FULL \$ WEIGH (IF REWEIGH)

© CAT Scale® Reg 3063 11/17

CUSTOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE:



CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

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- Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com
- IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

4-24-2018

STEER AXLE

10260 15

951

CERTIFICATE OF WEIGHT & MEASURE

SCALE:

DRIVE AXLE

33640

41043091 LOCATION: PUBLIC WEIGHMASTER'S

PILOT TRAVEL CENTER

TRAILER AXLE

33060 16

I-95 AND I-52 EXIT 16 GROSS WEIGHT

6960 15

FLORENCE SC

381

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

1 b

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSALE - TRANSPORT

WEIGH NUMBER 3088

WEIGHMASTER OR WEIGHER SIGNATURE

TRAILER #

TERRANCE BLOW

TICKET # OF ULL \$ WEIGH (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

Water Recovery

Non-Hazardous Manifest: Waste Water or	r Drums	Numb	er:	
Generator's EPA ID# (if applicable):		Waste ID Nu	mber:	
2. Generator's Name and Mailing Address: Former Windsor Wart 870 chester field HWY Cheraw, &	mart			ST#02314 2171.95
	es	Phone (43) 8 7	3 - 8200
3. Agent of Generator and Mailing Address: Terry Envisor amandal Service	5	PO#:	Control of the Atlanta	
Summerville, SC			25	
4. Transporter Company Name: 600dsell transport 600se Co	eek,sc	Phone ()	
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:				
o. Harspotter G.G. Ef Albit.				
 Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445 	Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445 Phone: (843) 797-3111 Fax: (843) 797-1884			
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons	:	Tank Number
0. H.C. DOT Description	1 -			1
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Bal	5,534
 Generator's Certification: I hereby declare that the contents of this co above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and th are as represented by the description contained on the Waste Profile F 	and labeled, an e laws of the S	d are in all resp tate of South C	ects in proper arolina. I furthe	condition for transport by highway according er certify that the contents of this consignment
Printed/Typed Name: Ryan Palmer Signature:	Rem	W.O.	more in	Date: 4/2 7/10
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: 11. Discrepancy Indication space:	The	1/3	7	Date: 6.27-C8
OF BE SUBMITTED OF MY		3.5.		
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature:	را	model	D	Date 6-27-18
White - Facility Yellow - Office	a Pink	- Transno	orter I	Riue - Generator

P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

DATE:

711 SCALE: 41043121 LOCATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

> IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER

CUSTOMER COPY

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[©]

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court <u>WITH</u> the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com

3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEERAXLE 10720 15

DRIVEAXLE 16760 15

381
PILOT TRAVEL CENTER TRAILERAXLE 10620 15

I-95 AND I-52 EXIT 16 GROSS WEIGHT 38100 15
FLORENCE SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

COMPANY GUUDSELL

WEIGHMASTER OR WEIGHER SIGNATURE

__TRAILER #

TICKET # OF FULL \$ WEIGH (IF REWEIGH)

© CAT Scale® Reg 3063 11/17

DRIVER IN TRUCK UNLESS CHECKED HERE.





CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

937

CERTIFICATE OF

WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[©]

WEIGH WHAT WE SAY OR WE PAY®

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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

FLORENCE

- Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com
- IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: STEER AXLE 10700 1 b 6-27-2018 37060 **DRIVE AXLE** 1. 15 SCALE: 381 41043127 LOCATION: 36440 1 5 TRAILER AXLE PILOT TRAVEL CENTER **PUBLIC WEIGHMASTER'S** I-95 AND I-52 EXIT 16 GROSS WEIGHT 84200

> This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

> > 46,100 net = 5,5346

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSELL

101

FULL \$ WEIGH

(IF REWEIGH)

WEIGH NUMBER 3121

FEE

COMPANY

WEIGHMASTER OR WEIGHER SIGNATURE

TRAILER # TICKET # OF

SAVANNAH SCOTT

© CAT Scale® Reg 3063 11/17

CUSTOMER COPY



843-568-8823

Non-Hazardous Manifest: Waste Water o	r Drums	Numb	er:	
Generator's EPA ID# (if applicable):		Waste ID Nur	mber:	
2. Generator's Name and Mailing Address: Wind Sor Mart		Phone () P#	2171
Cheraw, SC		P O #:		
3. Agent of Generator and Mailing Address:		Phone (&	343) 873	8200
Terry Environmental Summerville; SC		P O #:	P.O. B	10× 25
4. Transporter Company Name:		Phone ()	
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 511	ailing Addres Water Recov Old Mt. Holly e Creek, SC 2	very Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884
7 Facility U.S. EPA ID#:		Annua (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960)	SERVICE TEXAS	
Start Level: End Level:		Total Gallons	<u> </u>	Tank Number
				Talk Hallbar
8. U.S. DOT Description	No.	ainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	1	VT	Al	47 080
	/			5685
			}	
9. Generator's Certification: I hereby declare that the contents of this contents above by proper shipping name and are classified, packed, marked to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile Research	and labeled, and ne laws of the St	are in all responded	pects in proper of Carolina, I further	condition for transport by highway according certify that the contents of this consignment
Printed/Typed Name: Junings Ker As Agent	hom	- 1/	u.	Date: Coloralis
Transporter Acknowledgement of Receipt of Materials	-	A.		1 / 10
Printed/Typed Name: Signature: Signature:	-//		Mall !	Date:
11. Discrepancy In death space.	100	1/1		0) 110
12. Facility Owner or Operator: Certification of Receipt of Materials		^	2	200
Printed/Typed Name: PAIL Signature:	\$ D	Hers	QDV.	6-27-15
White - Facility Yellow - Offic	e` Pink	- Transpo	orter 🔪 🛭 🖪	lue - Generator

30836115 TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

621

30836116

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

- Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com
- IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: STEER AXLE 10480 1 b 3-13-2018 15640 15 **DRIVE AXLE** SCALE: 381 LOCATION: 11980 PILOT TRAVEL CENTER TRAILER AXLE PUBLIC WEIGHMASTER'S I-95 AND I-52 EXIT 38100 10 **GROSS WEIGHT** FLORENCE SC

> This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

CERTIFICATE OF

WEIGHT & MEASURE

WEIGH NUMBER

6116

USTOMER COPY

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

05

GOODSELL COMPANY

WEIGHMASTER OR WEIGHER SIGNATURE FEE \$11.00

105 TRAILER #

FULL WEIGH TICKET # (IF REWEIGH)

@ CAT Scale® Reg 3063 07/17

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

1304

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

SCALE:

41043134 LOCATION: PUBLIC WEIGHMASTER'S

CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 3134

6-27-2018

FLORENCE SC

381

STEER AXLE

11020 15

DRIVE AXLE

38080 1 1

PILOT TRAVEL CENTER

TRAILER AXLE

36380 15

I-95 AND I-52 EXIT 16

GROSS WEIGHT

85480 15

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

47380 net - 500

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

GOODSELL TRANSPORT

WEIGHMASTER OR

WEIGHER SIGNATURE

FULL \$ WEIGH (IF REWEIGH)

CUSTOMER COPY

© CAT Scales Flag 3083

DRIVER IN TRUCK UNLESS CHECKED HERE

Water Recovery

Non-Hazardous Manifest: Waste Water	or Drume	Manual				
Generator's EPA ID# (if applicable):	or Drums					
Generator's Name and Mailing Address;		Waste ID N	umber:			
Wend Sor Wart		Phone ()	2171.95		
Windsor Mart Cheraw, SC		P O #:		The second secon		
Agent of Generator and Mailing Address:	1	Phone ()	P.O. Box 25		
Terry Environnenta Summoville	1	P O #:	1050	P.U. 150x 25		
4. Transporter Company Name:	SC	Phone (1			
		· none (,			
Truck & Trailer License Number:						
5. Transporter U.S. EPA ID#;		A.F				
5. Facility Name and Site Address: US Water Recovery		Mailing Addres	ss:	Phone: (843) 797-3111		
511 Old Mt. Holly Rd. Goose Creek, SC 29445	US Water Recovery 511 Old Mt. Holly Rd.			Fax: (843) 797-1884		
Facility U.S. EPA ID#:	Go	ose Creek, SC 2	29445			
tart Level: End Level:						
Lift Level,		Total Gallons	:	Tank Number		
. U.S. DOT Description	Cox	ntainer	11			
	No.	Type	Unit	Quantity		
Non-Hazardous, non-regulated waste water				11000		
				405)		
ar ar				V		
Generator's Certification: I hereby declare that the contents of this cabove by proper shipping name and are classified, packed, marked to applicable international and national government regulations and tare as represented by the description contained on the Waste Profile	the least of the	u are in all respe	ects in prope	r condition for transport by highway according		
nted/Typed Name: Jennings har As granture:	Form provipusly	submitted to an	d approved b	by the Designated Facility. Date: 6 / 28 / 19		
Transporter Acknowledgement of Receipt of Materials ted/Typed Name/ Signature:	2-11			Date:		
Discrepancy Indiversión space. I III 21 212	1111	TIM		- 6/29/D		
Facility Owner or Operator: Certification of Receipt of Materials ted/Typed Name: Signature:	20	Grade.	B	Date 6-28-15		
White - Facility Yellow - Office	e Pink	- Transpor	ter E	Blue - Generator		

30836115 TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

THE CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

3-13-2018

STEER AXLE

10480 1 10

621

30836116

381

DRIVE AXLE

15640 1. 10

SCALE: LOCATION:

PILOT TRAVEL CENTER

TRAILER AXLE

11930 10

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

I-95 AND I-52 EXIT 164 *GROSS WEIGHT

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

BALOO

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

accuracy of the weight shown as prescribed by law.

FREIGHT ALL KINDS

GOODSELL

COMPANY

TRAILER #

FEE \$11.00

WEIGHMASTER OR WEIGHER SIGNATURE

FULL WEIGH TICKET # (IF REWEIGH)

6116 STOWER COPY

WEIGH NUMBER

© CAT Scale® Reg 3063 07/17

40104005



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

1439

CERTIFICATE OF

WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

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Post bond and request a court date.

Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com

IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: STEER AXLE 10540 3 b 6-28-2018 DRIVE AXLE SCALE: 34840 1. 15 LOCATION: 947 TRAILER AXLE PUBLIC WEIGHMASTER'S OBIEE 1 5 TRAVELCENTERS OF AMERICA 195 **GROSS WEIGHT** I-95 EXIT 164

78560 This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY GOOD SALE TRANS

WEIGHMASTER OR WEIGHER SIGNATURE

_TRAILER # TICKET # OF

FULL \$ WEIGH (IF REWEIGH)

FEE

TAMMIE GONZALEZ

© CAT Scale® Reg 3063 11/17

DRIVER IN TRUCK UNLESS CHECKED HERE:

WEIGH NUMBER 4005

\$11.50

CUSTOMER COPY

Water Recovery

845 \$8823

Non-Hazardous Manifest: Waste Water or Drums Generator's EPA ID# (if applicable):	Number:	
	Waste ID Number:	
Generator's Name and Mailing Address: Wind Sor Wart	Phone ()	2171.9J
Cherano, SC	P O #:	Critic (
Agent of Generator and Mailing Address:		
Terry Environmental	Phone ()	Summoville, SC
PA Box 75	P O #:	29484
Transporter Company Name: Coolse/ Ences 511 old n7 Holly Rd	Phone ()	(
uck & Trailer License Number: Carrll SC 290	145-	
Transporter U.S. EPA ID#:		
Facility Name and Site Address: US Water Recovery	Mailing Address:	Phone: (843) 797-3111
511 Old Mt. Holly Pd	Water Recovery Old Mt. Holly Rd.	Fax: (843) 797-1884
G00	se Creek, SC 29445	
Facility U.S. EPA ID#:		
rt Level: End Level:	Total Gallons:	Tank Number
U.S. DOT Description		
No.	tainer U Type	Init Quantity
Non-Hazardous, non-regulated waste water 163	25 au	1 544/
ienerator's Certification: I hereby declare that the contents of this consignment are r pove by proper shipping name and are classified, packed, marked and labeled, and applicable international and national government regulations and the laws of the St	ot hazardous by defin	nition or listing and are fully and accurately describ
applicable international and national government regulations and the laws of the Street eas represented by the description contained on the Waste Profile Form previously send/Typed Name:	ate of South Carolina.	proper condition for transport by highway according the further certify that the contents of this consignment.
od/Typed Name: Jewn 155 Kosc As Signature:	ubmitted to and appro	Date: 10/70//10
ransporter Acknowledgement of Receipt of Materials ed/Typed Name: Discrepancy Indication space:	> -	Date: 6/28/18
		•
acility Owner or Operator: Certification of Receipt of Materials		

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

1211

WEIGH WHAT WE SAY OR WE PAY®

THE CAT SCALE GUARANTEE

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

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DATE:

SCALE:

6-28-2018

STEER AXLE

12120 a b

DRIVE AXLE

15 14600

381

TRAILER AXLE

11220 1 b

I-95 AND

FLORENCE

GROSS WEIGHT

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

38140 15

IMPRINT SEAL HERE (IF APPLICABLE)

PUBLIC WEIGHMASTER'S CERTIFICATE OF

WEIGHT & MEASURE

41043168 LOCATION:

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEG

accuracy of the weight shown as prescribed by law.

ALL KINDS FREIGHT

COMPANY

GOODSELL TRANSPORT

103 HAILER #

WEIGH NUMBER

3168

WEIGHMASTER OR WEIGHER SIGNATURE

TICKET # OF

FEE

FULLS WEIGH (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17



PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

CAT SCALE COMPANY

1429 SCALE: 41043180 LOCATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 3168

FEE

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

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* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

6-28-201A

STEER AXLE

12500 Ib

381

DRIVE AXLE

36280 10

PILOT TRAVEL CENTER

TRAILER AXLE

34680 11

1-95 AND I-52 EXIT 16 GROSS WEIGHT FLORENCE SC

83460 15

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSELL TRANSPORT COMPANY

TRAILER #

WEIGHMASTER OR WEIGHER SIGNATURE

DEENA FETROW

FULL \$ WEIGH

41043168

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

(IF REWEIGH)

Water Recovery

Non-Hazardous Manifest: Waste Water or	Number:						
Generator's EPA ID# (if applicable):		Waste ID Number:					
2. Generator's Name and Mailing Address: Former Windson Mort 820 Chester Eield Hwy Cheraw 35C		Phone (P O #:	UST 217	02314			
3. Agent of Generator and Mailing Address: Terry Environmental Ser Summerville, SC	ur ces	Phone (PO#:) 25				
4. Transporter Company Name: Coodsell Transport 611012mt. Holly Rd Go Truck & Trailer License Number:	10SE (~e	Phone (·					
5. Transporter U.S. EPA ID#: 6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445 Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445 Phone: (843) 797-3111 Fax: (843) 797-1884							
7 Facility U.S. EPA ID#:							
Start Level: End Level:		Total Gallons	:	Tank Number			
8. U.S. DOT Description	No.	tainer Type	Unit	Quantity			
a. Non-Hazardous, non-regulated waste water	101	VT	GAZ	5,678			
Generator's Certification: I hereby declare that the contents of this co							
above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile R	e laws of the S	State of South C	Carolina. I furthe	r certify that the contents of this consignment			
Printed/Typed Name: Signature: 10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: 11. Discrepancy Indication space:	Jun	esta	Me	Date: 6 [28/18] Date: 6-18-18			
12. Facility Owner or Operator: Certification of Receipt of Materials Printed/Typed Name: Signature: White - Facility Yellow - Office	Q Din	heeste k - Transpo	2)	Date 6-28-18 Blue - Generator			

-T NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

THE CAT SCALE GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY®

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DATE:

STEER AXLE

10720 LI

6-27-2018

DRIVE AXLE

16760 1.

711

SCALE:

301 PILOT TRAVEL CENTER

TRAILER AXLE

10620

41043121 LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

1-95 AND I-52 EXIT 16 GROSS WEIGHT

38100 Ib

FLORENCE SE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSE

TRAILER #

WEIGH MUMBER

四主里主

\$11.50

WEIGHMASTER OR WEIGHER SIGNATUR

TICKET # OF FULL \$ WEIGH (IF REWEIGH)

© CAT Scale® Reg 3083 11/

CUSTOMER COPY



CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

625

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER

3121

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STEER AXLE 1 5 DATE: 10840 6-28-2018 37600 1 15 **DRIVE AXLE** 381 34940 Ib 41043151 LOCATION: TRAILER AXLE PTIOT TRAVEL CENTER

PUBLIC WEIGHMASTER'S I-95 AND I-52 EXIT 16 CERTIFICATE OF GROSS WEIGHT 15 WEIGHT & MEASURE FLORENCE SO

> This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

TRAILER #

WEIGHMASTER OR

WEIGHER SIGNATURE

TICKET # OF 41043121

FULL \$ WEIGH (IF REWEIGH)

© CAT Scale® Reg 3063 11/17

CUSTOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE:



Non-Hazardous Manifest: Waste Water or	r Drums	Numbe	er:	
Generator's EPA ID# (if applicable):		Waste ID Nun	nber:	
2. Generator's Name and Mailing Address: Former windsat mark geo chester Stald thous		Phone (T#02314
cherau SC			2	171.95
3. Agent of Generator and Mailing Address:	25	Phone () 243	5-873-8200
3. Agent of Generator and Mailing Address: Ferry Environ wantal Service		PO#: 7		
Summer ville, SC		W. STATESTAN	->	8
4. Transporter Company Name: Goodsell Transport Goose (611 old Mt. Holly Rd	creek, sc	Phone ()	6
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	US 511	lailing Addres Water Recov Old Mt. Holly se Creek, SC 2	ery Rd.	Phone: (843) 797-3111 Fax: (843) 797-1884
7 Facility U.S. EPA ID#:				
Start Level: End Level:		Total Gallons:		Tank Number
8. U.S. DOT Description	Con No.	tainer Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	161	VI	GPL	5,282
			\$1	
9. Generator's Certification: I hereby declare that the contents of this coabove by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F	and labeled, and le laws of the S	d are in all resp tate of South Ca	ects in proper carolina. I further	ondition for transport by highway according certify that the contents of this consignment
Printed/Typed Name: Ryan Palmer Signature:	Rixin	(FOUN	e	Date: 6/29/18
10. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name: Signature:	0	2	1	1.20.18
1 chemy	Me	al d	Sign	Date: 6 -29-18
11. Discrepancy Indication space:	50		0	
12. Facility Owner or Operator: Certification of Receipt of Materials	^ -	/10	0	
Printed/Typed Name: () Aul Decil Signature:	20	Golf	<i>y</i>	Date 6-29-18
White - Facility Yellow - Office	e Pink	- Transpo	rter Bl	ue - Generator

T NUMBER

CERTIFIED **AUTOMATED** TRUCK SCALE

CAT SCALE COMPANY PO. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

711

THE CAT SCALE GUARANTEE

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STEER AXLE DATE: 10720 1 10 5-27-201A DRIVE AXLE 3. la 16760 SCALE: Lorden your air 0620 1 TRAILER AXLE 41043121 LOCATION: PILOT TRAVEL CENTER PUBLIC WEIGHMASTER'S 1-95 AND 1-52 EXIT 14 GROSS WEIGHT

FLORENCE SC. This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

IMPRINT SEAL HERE (IF APPLICABLE)

CERTIFICATE OF

WEIGHT & MEASURE

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

accuracy of the weight shown as prescribed by law.

GOODSE

WEIGHMASTER OR WEIGHER SIGNATUR

COMPANY

FREIGHT ALL KINDS

COLAE

TRAILER #

TICKET # OF FULL \$ WEIGH (IF REWEIGH)

© CAT Scale® Reg 3063 11/

WEIGH NUMBER 3121

CUSTOMER COPY

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DATE:

SCALE:

6-29-2018

STEER AXLE

10640 1 6

DRIVE AXLE

36040 10

947

TRAVELCENTERS OF AMERICANTES

35420 1 15

I-95 EXIT 164

FLORENCE SC

* GROSS WEIGHT

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the

82100 Jb

CERTIFICATE OF WEIGHT & MEASURE

PUBLIC WEIGHMASTER'S

4010402 CATION:

627

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER

4028

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

accuracy of the weight shown as prescribed by law.

GOODSELL

FREIGHT ALL KINDS

COMPANY

TRACTOR #

101

TRAILER #

WEIGHMASTER OR

TICKET # OF

FULL \$ WEIGH

\$11.50 WEIGHER SIGNATUR

JOHN MILLER

(IF DEWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

WaterRecovery

Non-Hazardous Manifest: Waste Wate	r or Drums	Numb	er:			
Generator's EPA ID# (if applicable):		Waste ID Nu	mber:			
2. Generator's Name and Mailing Address:		Phone (<u>x</u>			
820 Chesher held they		i none (ı			
820 Chespeobild Hay Chean, St		P O #:				
Agent of Generator and Mailing Address:		Phone (
Terry Envisormental Suns results 86		i none (1			
		P O #:				
4. Transporter Company Name: Const Creek, K Truck & Trailer License Number:		Phone ()			
5. Transporter U.S. EPA D#:						
Facility Name and Site Address:		ř		Phone: (843) 797-3111		
US Water Recovery		lailing Addres Water Recov				
511 Old Mt. Holly Rd. Goose Creek, SC 29445	511	Old Mt. Holly e Creek, SC 2	Rd.	Fax: (843) 797-1884		
7 Facility U.S. EPA ID#:						
Start Level: End Level:		Total Gallons:		Tank Number		
8. U.S. DOT Description						
c. c.c. bet bescription	No.	ainer Type	Unit	Quantity		
a. Non-Hazardous, non-regulated waste water	70823	RIK	GAL	601		
	l l					
9. Generator's Certification: I hereby declare that the contents of this above by proper shipping name and are classified, packed, mark to applicable international and national government regulations are as represented by the description contained on the Wester Profit	d the laws of the Sta	are in all respe	ects in proper o	condition for transport by highway according		
are as represented by the description contained on the Waste Profi Printed/Typed Name: Signature	ie Form previously s	ubmitted to an	d approved by	the Designated Facility. Date:		
Transporter Acknowledgement of Receipt of Materials				22.500.000		
Printed/Typed Name: Signature	Level	K	*	Date: 7-2-W		
Discrepancy Indication space:		,				
2. Facility Owner or Operator: Certification of Receipt of Materials						
Printed/Typed Name: PAUL Hounds Signature	Q 2.	Inself	9)	Date 7-2-18		
White - Facility Yellow - Off	ice Pink	Transpor	tor D	lue - Generator		

31430513



CERTIFIED **A**UTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

LOCATION: PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

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7-02-18

254

STEER AXLE

9700 lb

DRIVE AXLE

12240 16

KANGAROO EXPRESS

TRAILER AXLE

8920

I 26 EXIT 199B

16

SUMMERVILLE

GROSS WEIGHT

30860 16

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LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

GOOD SELL TRANSPOR

TRACTOR #

06

TRAILER # **FULL WEIGH**

108

(IF REWEIGH)

@ CAT Scale® Reg 3063 07/17

WEIGH NUMBER 0512

FEE

DATE:

WEIGHMASTER OR \$11WEIGHER SIGNATURE

TINA

SUSTOMER COPY



CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

DATE

912 SCALE:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER

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DATE:

7-02-201A

STEER AXLE

10780 lb

DRIVE AXLE

36540 3.6

947

TRAVELCENTERS OF AMERICANTES

33660 lb

I-95 EXIT 164 FLORENCE SC

* GROSS WEIGHT

80980 15

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

50,120 = 6,0176

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

GOODSELL

-

8 --- 70:

FFF

HACTOH#

TRAILER # ___

70423

WEIGHMASTER OR WEIGHER SIGNATURE

ALAYSHIA W

TICKET # OF FULL \$ WEIGH (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

DRIVER IN TRUCK UNLESS CHECKED HERE:

Water Recovery

Non-Hazardous Manifest: Waste Water	or Drumo	Alexand				
Generator's EPA ID# (if applicable):	Ji Diuliis	Numb				
Distribution of the control of the c		Waste ID N	umber:			
2. Generator's Name and Mailing Address:		Phone ()			
			7007			
Charau, sc		P O #:				
Agent of Generator and Mailing Address:		Dhone /				
TERRY ENVIRONMENTA	<u> </u>	Phone ()			
		P O #:				
4. Transporter Company Name:		Phone ()			
Truck & Trailer License Number: 5. Transporter U.S. EPA ID#:						
o. Manaporter o.s. EFA ID#:						
6. Facility Name and Site Address:				Phone (040) 707 0444		
US Water Recovery		Mailing Addre		Phone: (843) 797-3111		
511 Old Mt. Holly Rd. Goose Creek, SC 29445	51	1 Old Mt. Holly	Rd.	Fax: (843) 797-1884		
A CONTRACTOR OF THE CONTRACTOR	Goo	se Creek, SC	29445			
7 Facility U.S. EPA ID#;						
Start Level: End Level:		Total Gallons):	Tank Number		
U.S. DOT Description	Con	Container Unit		Quantity		
	No.	Type		Quantity		
a. Non-Hazardous, non-regulated waste water	1	1/-	611	5152		
		V /	THE	1135		
•						
 Generator's Certification: I hereby declare that the contents of this co above by proper shipping name and are classified, packed, marked a to applicable international and national government regulations and the are as represented by the description contained on the Waste Profile F 	ne laws of the Ci	tate of Court O	ects in proper	condition for transport by highway according		
are as represented by the description contained on the Waste Profile F Printed/Typed Name: Signature:	orm previously	submitted to ar	nd approved by	the Designated Facility.		
DEC MATERIAL DESCRIPTION OF THE PROPERTY OF TH				Date:		
10. Transporter Acknowledgement of Receipt of Materials Printed Typed Name Signature:				Date:		
	1///					
12. Facility Owner or Operator: Certification of Receipt of Materials		967 17-				
Printed/Typed Name: AL Hoodell Signature	35	South		Date 7-2-18		
White - Facility Yellow - Office	Pink	- Transpo	rter B	lue - Generator		

17304

IMPRINT SEAL HERE (IF APPLICABLE)

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LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHT GOOD SELL TRANSPORT COMPANY

FREIGHT ALL KINDS 06

DRIVER IN TRUCK UNLESS CHECKED HERE.

108

WEIGH NUMBER 0512 FEE

WEIGHMASTER OR \$11WEIGNER SIGNATURE

TRAC TINA

TRAILER # FULL WEIGH

TICKET # (IF REWEIGH)

MER COPY

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

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DATE:

SCALE: 4010407@CATION:

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

910

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 4073

7-02-201A

DRIVE AXLE 947

TRAVELCENTERS OF AMERICA 195

STEER AXLE

* GROSS WEIGHT

73800

12160

29920

31720

J. to

1.10

1 10

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LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY

GOODSELL

I-95 EXIT 164

FLORENCE SC

WEIGHMASTER OR WEIGHER SIGNATURE

108

DRIVER IN TRUCK UNLESS CHECKED HERE

TICKET # OF FULL \$ WEIGH (IF REWEIGH)

ALAYSHIA W

© CAT Scale® Reg 3063 11/17

06_TRAILER#

CUSTOMER COPY

APPENDIX H

Local Zoning Regulations (Not Applicable)

APPENDIX I

Fate and Transport Modeling Data (Not Applicable)

APPENDIX J

Access Agreements (Not Applicable)

APPENDIX K

Data Verification Checklist

<u>Contractor Checklist – Maruti Kundal (Former Windsor Mart)</u>

UST Permit #02314 - TERRY Project #2171.9J

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,	v		
4	telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well	X		
3	driller that installed borings/monitoring wells provided?	Λ		
6	Is the name, address, telephone number, and certification number of the certified			X
0	laboratory(ies) performing analytical analyses provided?			A
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		
		Sect 3		37
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	X		
	guidelines?			
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
	Has the volume of water purged from each well been provided along with			
23	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
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			X
30	Evaluation)			$igsqcup^{\Lambda}$
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

Item #	Item	Yes	No	N/A
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)			X
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing and incomplete information?

Not Applicable for the current directive.



MOV 14 2018



JACKSON OIL COMPANY INC 755 S 4TH ST HARTSVILLE SC 29550

Re:

Site Specific Work Plan (SSWP) Directive for Groundwater Sampling

Maruti Kundal DBA Country Cupboard 7, 820 Chesterfield Hwy, City, SC

UST Permit #02314

Release reported December 6, 1991

Aggressive Fluid Vapor Recovery Report received July 10, 2018

Chesterfield County

To Whom it May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Groundwater samples should be collected from all monitoring wells, water supply wells, and surface waters within 1,000 foot radius of the site and analyzed for Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene, MtBE, the 8 Oxygenates, 1,2-DCA, and EDB. All wells should be purged prior to sample collection.

Your contractor must complete the SSWP and Cost Proposal and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that approval from DHEC must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #02314. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-2446, by fax at (803) 898-0673, or by e-mail at gladdet@dhec.sc.gov.

Sincerely,

Thomas Gladden Jr, Hydrogeologist

Corrective Action & Quality Assurance Section Underground Storage Tank Management Division

Bureau of Land and Waste Management

Cc: Terry Environmental Services Inc, PO Box 25, Summerville SC 29484

Technical Files



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

To: Thomas Gladden		(SC	CDHEC Project Manager)
From: Kelly Cone			ntractor Project Manager)
Contractor: TERRY Environmental Se	rvices, Inc. UST Con	tractor Certification Number: UCC	-0223
Facility Name: Maruti Kundal (Former	Windsor Mart)	UST Permit #:	02314
Facility Address: 820 Chesterfield Hig			27080 UST
Responsible Party: Jackson Oil Com		Phone 355-7	37 7080 USF
RP Address: 755 South 4th Street, Ha	artsville, SC 29550	142	
Property Owner (if different): n/a		To	OFC 0 3 2018
Property Owner Address: n/a Current Use of Property: Gas Stati	on and Convenience Store (Corr	ner Cuphoard)	
		CKE	VISION
Scope of Work (Please check all	that apply)		П
☐ IGWA ☐ Tier II		☑ Groundwater Sampling	☐ GAC
☐ Tier I ☐ Monito	oring Well Installation	Other	
Analyses (Please check all that a	apply)		
Groundwater/Surface Water:	_		
☑ BTEXNMDCA (8260B)	Lead	☐ BOD	Methane
Oxygenates (8260B)	8 RCRA Metals	☐ Nitrate	☐ Ethanol
☑ EDB (8011)	□ ТРН	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270D)	☐ pH	☐ Other	
Drinking Water Supply Wells:			
BTEXNMDCA (524.2)		45.1 or 245.2)	.1)
Oxygenates & Ethanol (8260B)	RCRA Metals (20	00.8)	
Soil:	-	_	
	RCRA Metals	☐ TPH-DRO (3550B/8015B)	
□ PAH □] Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	☐ TOC
Air:			
BTEXN			
Sample Collection (Estimate the			ollected.)
Soil	1 Water Supply \	•	3 Field Blank
35 Monitoring Wells	2 Surface Wate	r <u>3</u> Duplicate	3 Trip Blank
Field Coroning Mathedates			
Field Screening Methodology			41 44 1 1
Estimate number and total comple			
# of shallow points proposed:			
# of deep points proposed:			feet per point
Field Screening Methodology:			
Permanent Monitoring Wells			
Estimate number and total comple	eted depth for each well, an	d include their proposed locations	on the attached map.
# of shallow wells:		ted Footage:	·
# of deep wells:		ted Footage:	
# of recovery wells:			
Comments, if warranted:			
-			

UST Permit #: 02314 Facility Name: M	aruti Kundal (Former Windsor Mart)
Implementation Schedule (Number of calendar days fi Field Work Start-Up: 14-30 days Report Submittal: 60 days	Field Manh Consulations on 45 days
Aquifer Characterization Pump Test: ☐ Slug Test: ☐ (Check one and provide	e explanation below for choice)
Investigation Derived Waste Disposal Soil: Tons	Purge Water: 110 Gallons
Soil: Tons Drilling Fluids: Gallons	Free-Phase Product: Gallons
event, etc. Conduct a comprehensive groundwater sampling event; shallow monitoring deep wells DW-1 through DW-3, and water supply well (WSW-1) will be s	oned/repaired, well pads/bolts/caps to replace, details of AFVR g wells MW-1, MW-2R, MW-3 through MW-27, recovery wells RW-1 through RW-5, sampled. The two drainage features (SW-1 and SW-2) approximately 800 to 1,000 bring wells were last sampled in March 2018 and per SCDHEC request will be purged
Compliance With Annual Contractor Quality Assuran Yes Laboratory as indicated in ACQAP? (Yes/No) Name of Laboratory: SCDHEC Certification Number: Name of Laboratory Director: Well Driller as indicated in ACQAP? (Yes/No) Name of Well Driller: SCLLR Certification Number: Other variations from ACQAP. Please describe be	If no, indicate laboratory information below. If no, indicate driller information below.
must include the following: North Arrow Proposed m Location of property lines Legend with Location of buildings Streets or hi Previous soil sampling locations Location of	curately scaled, but does not need to be surveyed. The map nonitoring well locations a facility name and address, UST permit number, and bar scale ighways (indicate names and numbers) all present and former ASTs and USTs all potential receptors



ASSESSMENT COMPONENT INVOICE SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Maruti Kundal (Former Windsor Mart)

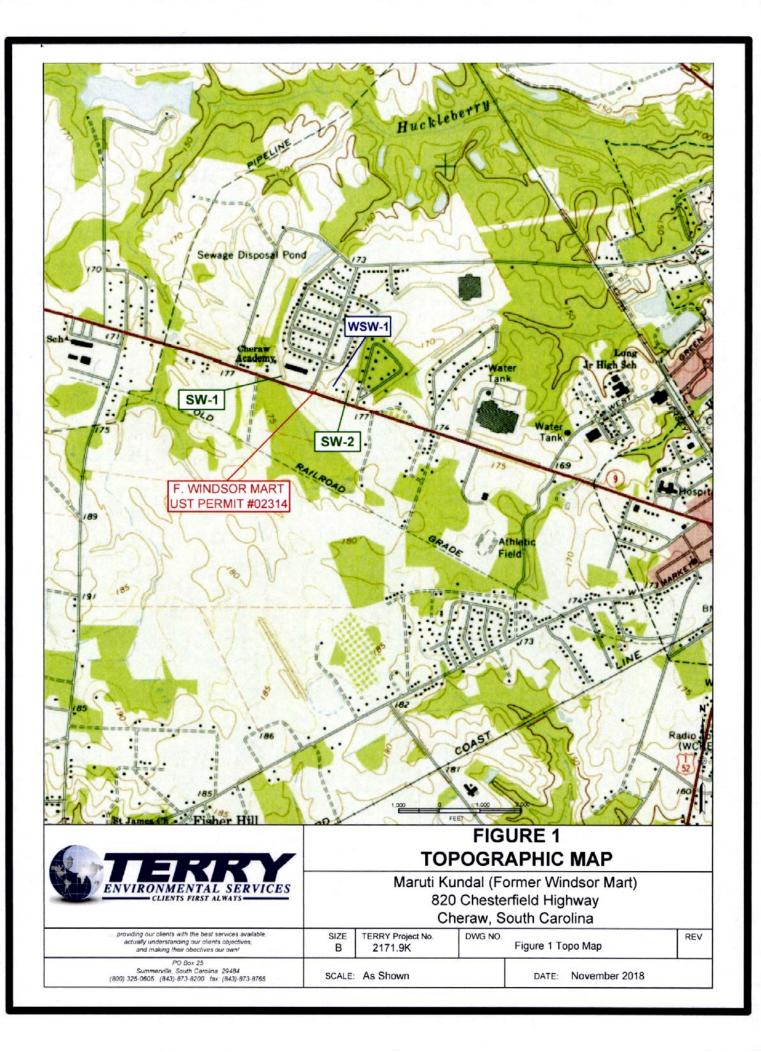
Facility Name: Maruti Kundal (Former Windso	or Mart)		_		
UST Permit #: <u>02314</u>	Cost A	greement #:	Proposal	<u>. </u>	
ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. Plan Preparation					
A1. Site-specific Work Plan	1	each	\$150.00		\$150.00
B1. Tax Map		each	\$70.00		\$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00		\$0.00
2. A1. Receptor Survey *		each	\$551.00	3	\$0.00
3. Survey (500 ft x 500 ft)					
A1. Comprehensive Survey		each	\$1,040.00		\$0.00
B. Subsurface Geophysical Survey					
1B. < 10 meters below grade		each	\$1,300.00		\$0.00
2B. > 10 meters below grade		each	\$2,310.00		\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00		\$0.00
4. Mob/Demob					
A1. Equipment		each	\$1,020.00		\$0.00
B1. Personnel (10 x2, 17)	3	each	\$423.00		\$1,269.00
C1. Adverse Terrain Vehicle		each	\$500.00		\$0.00
5. A1. Soil Borings (hand auger)*		foot	\$5.00		\$0.00
6. Soil Borings (requiring equipment, push techno	ology, etc)* or				
Field Screening (including water sample, soil sa	ample, soil gas	sample, etc.)*	1		
AA. Standard	1	per foot	\$15.00		\$0.00
C1. Fractured Rock		per foot	\$20.20		\$0.00
7. A1. Soil Leachability Model		each	\$60.00		\$0.00
8. Abandonment (per foot)*					
A1. 2" diameter or less		per foot	\$3.10		\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$4.50		\$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00		\$0.00
9 Well installation (per foot)*	+	•			<u>`</u>
A1. Water Table (hand augered)	\	per foot	\$10.60		\$0.00
B1. Water Table (drill rig)	l Bin	per foot	\$38.00		\$0.00
CC. Telescoping	03 1010	per foot	\$50.00		\$0.00
DD. Rock Drilling	DINIZION 0 3 5018	per foot	\$58.00		\$0.00
E1. 2" Rock Coring	1,4619	per foot	\$30.90		\$0.00
G1. Rock Multi-sampling ports/screens	1019	per foot	\$33.40		\$0.00
HH. Recovery Well (4" diameter)		per foot	\$45.00		\$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00		\$0.00
J1. Rotosonic (2" diameter)		per foot	\$44.00		\$0.00
K. Re-develop Existing Well		per foot	\$11.00		\$0.00
10. Groundwater Sample Collection / Gauge Dept	th to Water or P		, , , , , ,		40.00
A1. Groundwater Purge	35	per well/receptor	\$60.00		\$2,100.00
B1. Air or Vapors		per receptor	\$12.00		\$0.00
C1. Water Supply	1	per well/receptor			\$22.00
D1. Groundwater NP (), SW (2), or Dup (3)	5	per well/receptor	1		\$140.00
E1. Gauge Well only		per well/receptor	\$7.00		\$0.00
F1. Sample Below Product		per well	\$12.00		\$0.00
G1. Passive Diffusion Bag		each	\$26.00		\$0.00
H1. Field Blank	3	each	\$24.60		\$0.00 \$73.80
I. Groundwater (low flow purge)	3	per well/receptor	1		\$0.00
i. Groundwater (low now purge)		Thei Meil/lecebtot	J ⊅91.00		Φ0.00

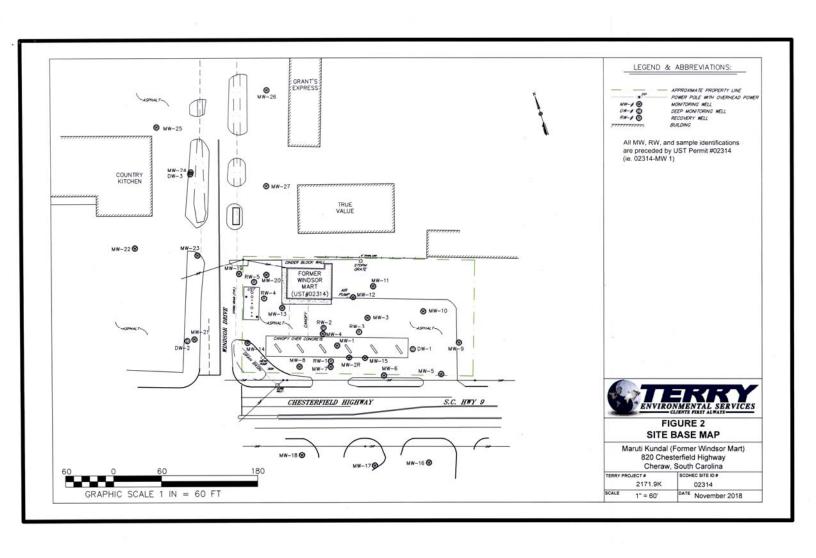
11. Laboratory Analyses-Groundwater	i		I		ĺ
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	43	per sample	\$122.00		\$5,246.00
AA1. Lead, Filtered		per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes	:	per sample	\$36.40		\$0.00
D1. PAH's		per sample	\$60.60		\$0.00
E1. Lead		per sample	\$16.00		\$0.00
F1. EDB by EPA 8011	41	per sample	\$45.20		\$1,853.20
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00
II. pH		per sample	\$5.20		\$0.00
J1. BOD		per sample	\$20.00		\$0.00
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Drinking Water		por campio	1		0.00
L. BTEXNM+1,2 DCA (524.2)	4	per sample	\$124.05	ıå,	\$496.20
M. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	\$91.75		\$367.00
N. EDB (504.1)	3	per sample	\$79.50		\$238.50
O. RCRA METALS (200.8)	3	per sample	\$100.00		\$0.00
11. Analyses-Soil		per sample	\$100.00		\$0.00
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's		per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)			\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00 \$0.00
X1. Total Organic Carbon		per sample	\$30.60		
11. Analyses-Air		per sample	\$30.00		\$0.00
Y1. BTEX + Naphthalene		nor comple	\$216.00		\$0.00
11. Analyses-Free Phase Product		per sample	\$210.00		\$0.00
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization		per sample	ψ337.00		\$0.00
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per float per test	\$191.00		\$0.00
C1. Fractured Rock		per test	\$100.00		\$0.00
		each	\$38.00		\$0.00
13. A1. Free Product Recovery Rate Test* 14. Fate/Transport Modeling	$\overline{}$	Gaoil	\$30.00		\$0.00
A1. Mathematical Model	Elm	each	\$100.00		\$0.00
A1. Mathematical Model B1. Computer Model	310	each	\$100.00	A.	\$0.00 \$0.00
15. Risk Evaluation	 	Gacii	\$100.00		φ0.00
A. Tier I Risk Evaluation	VISION	each	\$300.00		\$0.00
B1. Tier II Risk Evaluation	Y	each	\$100.00		\$0.00 \$0.00
16. A1. Subsequent Survey*			\$260.00		\$0.00
17. Disposal (gallons or tons)*		each			Φ U.UU
AA. Wastewater	110	gallon	\$0.56		\$61.60
BB. Free Product	110	gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal		gallon ton	\$60.00		\$0.00 \$0.00
D1. Drilling fluids			1		
18. Miscellaneous (attach receipts)		gallon	\$0.42		\$0.00
io. misociaricous (attaon receipts)		aaab	#0.00		00.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		each	\$0.00		\$0.00
20. Her i Assessment (Use DHEC 3666 form)		standard			\$0.00
21. IGWA (Use DHEC 3666 form) 22. Corrective Action (Use DHEC 3667 form)		standard			\$0.00
22. Confective Action (OSE DITEC 3001 form)		PFP Bid			\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)			W :	
A1. 8-hour Event*	each	\$1,375.00		\$0.00
AA. 24-hour Event*	each	\$3,825.00		\$0.00
A3. 48-hour Event*	each	\$6,265.00		\$0.00
A4. 96-hour Event*	each	\$12,567.50		\$0.00
C1. Off-gas Treatment 8 hour	per event	\$122.50		\$0.00
C2. Off-gas Treatment 24 hour	per event	\$241.50		\$0.00
C3. Off-gas Treatment 48 hour	per event	\$327.00		\$0.00
C4. Off-gas Treatment 96 hour	per event	\$780.00		\$0.00
D. Site Reconnaissance	each	\$203.25		\$0.00
E1. Additional Hook-ups	each	\$25.75		\$0.00
F1. Effluent Disposal	gallon	\$0.44		\$0.00
G. AFVR Mobilization/Demobilization	each	\$391.50		\$0.00
24. Granulated Activated Carbon (GAC) filter system installation	& service:			
A1. New GAC System Installation*	each	\$1,900.00		\$0.00
BB. Refurbished GAC Sys. Install*	each	\$900.00		\$0.00
C1. Filter replacement/removal*	each	\$350.00		\$0.00
DD. GAC System removal, cleaning, & refurbishment*	each	\$275.00		\$0.00
E1. GAC System housing*	each	\$250.00		\$0.00
F. In-line particulate filter	each	\$150.00		\$0.00
G1. Additional piping & fittings	foot	\$1.50		\$0.00
25. Well Repair				
A1. Additional Copies of the Report Delivered	each	\$50.00	100	\$0.00
B1. Repair 2x2 MW pad*	each	\$50.00		\$0.00
C1. Repair 4x4 MW pad*	each	\$88.00		\$0.00
D1. Repair well vault*	each	\$118.00		\$0.00
F1. Replace well cover bolts	each	\$2.60		\$0.00
G. Replace locking well cap & lock	each	\$15.00		\$0.00
H1. Replace/Repair stick-up*	each	\$134.00		\$0.00
H1. Replace/Repair stick-up* II. Convert Flush-mount to Stick-up*	each	\$150.00	e e	\$0.00
J1. Convert Stick-up to Flush-mount*	each	\$130.00		\$0.00
K1. Replace missing/illegible well ID plate	each	\$12.00		\$0.00
Report Prep & Project Coordination 12%	percent	\$12,017.30		\$1,442.08
TOTAL		No.		\$13,459.38

^{*}The appropriate mobilization cost can be added to complete these tasks, as necessary.

DHEC







NEC 1 2 2018



JACKSON OIL COMPANY INC 755 S 4TH ST HARTSVILLE SC 29550

Re:

Site-Specific Work Plan (SSWP) Approval and Groundwater Sampling Directive Maruti Kundal DBA Country Cupboard 7, 820 Chesterfield Hwy, Hartsville, SC

UST Permit #02314; CA #58541 Release Reported December 6, 1991

SSWP and cost proposal received December 3, 2018

ChesterfieldCounty

To Whom it May Concern :

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced SSWP submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's QAPP Addendum, and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentCleanup/QualityAssurance/

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

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

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for

the cost to be paid. The Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

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

On all correspondence regarding this site, please reference UST Permit #02314. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-2446, by fax at (803) 898-0673, or by e-mail at gladdet@dhec.sc.gov.

Sincerely,

Thomas Gladden Jr, Hydrogeologist

Corrective Action & Quality Assurance Section Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Terry Environmental Services Inc, PO Box 25, Summerville, SC 29484 (w/enc.)

Technical file (with enc.)

Approved Cost Agreement 58541

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7

GLADDET PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
01 PLAN			-	
	A1 SITE SPECIFIC WORK PLAN	1.0000	\$150.000	150.00
04 MOB/DEMOB				·
	B1 PERSONNEL	3.0000	\$423.000	1,269.00
10 SAMPLE COLLECTION	10-1-10-10-10-10-10-10-10-10-10-10-10-10			
	A1 GROUNDWATER (PURGE)	35.0000	\$60.000	2,100.00
	C1 WATER SUPPLY	1.0000	\$22.000	22.00
	D1 GROUNDWATER NO PURGE/DUPLICATE	5.0000	\$28.000	140.00
	H1 FIELD BLANK	3.0000	\$24.600	73.80
11 ANALYSES				
GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	43.0000	\$122,000	5,246.00
	F1 EDB BY 8011	41.0000	\$45.200	1,853.20
WATER DRINKING WATER	R L BTEXNM+1,2 DCA (524.2)	4.0000	\$124.050	496.20
	M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$91,750	367.00
	N EDB (504.1)	3.0000	\$79.500	238.50
17 DISPOSAL				
	AA WASTEWATER	110.0000	\$0.560	61.60
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	\$12,017.300	1,442.08

Total Amount

13,459.38

Document Receipt Information

Hard Copy	С	Email	
Date Received	Jan 24, 2	1019	
Permit Number	02314		
Project Manager	omas Glad	dden	
Name of Contractor	em env	Senicus	-
UST Certification Numb	ver Groundwa	ter Monitori	na Report
Docket Number	45	Tech	
		•	-
Scanned			

GROUNDWATER MONITORING REPORT MARUTI KUNDAL (FORMER WINDSOR MART) 820 CHESTERFIELD HIGHWAY CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 CA #58541

Prepared For:

SCDHEC UNDERGROUND STORAGE TANK PROGRAM 2600 BULL ST. COLUMBIA, SC 29201

Submitted By:



P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 (843) 873-8200 Fax (843) 225-3472 www.terryenvironmental.com

> UST CONTRACTOR #UCC-0223 TERRY PROJECT #2171.9K

Kelly K. Cone, PG Vice President Jason A. Terry, PG President

JANUARY 2019



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INTRODUCTION A.

SCDHEC UST PERMIT #02314

1. UST Facility and Owner/Operator Information

Facility Name (Permit #): Maruti Kundal (Former Windsor Mart) (02314)

820 Chesterfield Highway, Cheraw, South Carolina 29520 Facility Address:

Facility Telephone: 843-537-9096

Owner/ Operator Name: Jackson Oil Company (Contact: Charles Jackson)

Owner/ Operator Address: 755 South 4th Street, Hartsville, SC 29550

Owner/ Operator Telephone: 843-537-7080

2. Property Owner Information

Jackson Oil Company (Contact: Charles Jackson) Name:

755 South 4th Street, Hartsville, SC 29550 Address:

843-537-7080 Telephone:

3. Contractor Information

Terry Environmental Services, Inc. Name:

P.O. Box 25, Summerville, South Carolina 29484 Address:

843-873-8200 Telephone: Certification: UCC-0223

4. Well Driller Information

Not Applicable

5. Laboratory Information

Name: Shealy Environmental Services Inc. (Shealy)

106 Vantage Point Drive, Columbia, SC 29172 Address:

Telephone: 803-791-9700

32010 Certification:

6. Site History

Date Release Reported to SCDHEC: December 6, 1991

Estimated Quantity of Product Released: Unknown Cause of Release: Unknown

Current use of Facility: Gas Station and Convenience Store (Windsor Mart)

UST#	Product	Date Installed	Currently in Use (Yes or No)	If not in use, Date Removed
1 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
2 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
3 (4,000 gal)	Gasoline	Unknown	No	1/21/1997
4 (20,000 gal)	Multiple Petroleum	Unknown	Yes	: 555



Other Releases at this site? Yes	No XXXX
If yes, Date Release Reported to SCDHEC	n/a
Status of Release:	n/a
No Further Action Date:	n/a

7. Regional Geology and Hydrogeology

The Maruti Kundal (former Windsor Mart) site is located in Cheraw, South Carolina which lies in the northeastern portion of the Coastal Plain Province of South Carolina. This province was deposited during a series of transgressive and regressive eustatic sea level changes. The Coastal Plain is comprised of an area of erosional topography near the Fall Line which is considered the Inner Coastal plain and an area of constructional topography that extends seaward which is considered the Outer Coastal Plain. Cheraw is located in the Inner Coastal Plain where the sediments can be highly weathered and therefore causing stratigraphy and aerial distribution to be poorly understood. The Middendorf Formation outcrops in the Inner Coastal Plain and consists of intercalated, lensing, thick bedded, light-colored sands and clays (mudstones). (The Geology of the Carolinas, Horton & Zullo, 1991)

The site is located below the Fall Line in the Coastal Plain Province. This area consists of sand and clay beds of the Middendorf Formation. Near the southern border of Chesterfield County, the sand aquifers of the Middendorf occur to depths as great as 450 feet. Wells located in these aquifers yield as much as 900 gallons per minute (gpm) with the potential for yields up to 2,000-3,000 gpm. The chemical quality of the water is similar to rainwater with extremely low dissolved solids and low pH. (SCDNR Water Resources Report 36: Groundwater Resources of Chesterfield County, South Carolina, 2004)



B. RECEPTOR SURVEY & SITE DATA

1. Receptor Survey Results

A receptor survey was not conducted during this scope of work. A water supply well (WSW-1) was previously observed on the adjacent residential property to the east (802 Chesterfield Highway). The owner stated it was installed in the last few years for irrigation. Based on the USGS topographic map there are two drainage features located approximately 800 to 1,000 feet to the east and west of the subject site (SW-1 and SW-2).

2. Current Site and Adjacent Land Use

Description of current site use (commercial, residential, rural, etc.):

Commercial; Convenience Store

Description of adjacent land use (commercial, residential, rural, etc):

Residential and Commercial

UST sites within a 1,000-foot radius:

Unknown; none observed

The site is located at 820 Chesterfield Highway in Cheraw, South Carolina. The site is bordered to the west by Windsor Drive and commercial property, to the south by Chesterfield Highway and commercial property, to the east by residential properties, and to the north by commercial property. The general site location is shown on the Topographic Map provided in Section J as Figure 1. A Site Base Map originating from a comprehensive survey completed by Christopher R. Elmer (SC Registered Land Surveyor #30759) of Tim Elmer RLS, LLC on February 27, 2014 is provided in Section J as Figure 2.

3. Site-Specific Geology and Hydrogeology

Based on the Tier II Assessment reported in March 2015, the general soil profile onsite consists of sandy clay and clay underlain by sand and clayey silt in the deep wells. The Site Potentiometric Maps (Figures 5A and 5B) are included in Section J. Based on the data, shallow groundwater flow is generally to the north and deep groundwater flow is generally to the east-northeast. However, it should be noted that groundwater elevations were at a historic high; refer to Table 2.

C. SOIL ASSESSMENT/FIELD SCREENING INFORMATION & METHODOLOGY

Not Applicable. No soil or groundwater borings were installed during this scope of work.

D. MONITORING WELL INFORMATION

Not Applicable. No monitoring wells were installed during this scope of work.



E. GROUNDWATER DATA

1. Groundwater Sampling Methodology

TERRY conducted a comprehensive groundwater sampling event between December 26, 2018 and December 28, 2018. Just prior to the sampling event, all monitoring wells were gauged with an oil/water interface probe to determine depth to groundwater measurements and the presence or absence of free-phase petroleum. Water level was recorded to the nearest 0.01 foot and total well depth was recorded to the nearest 0.1 foot. Surface water location SW-1 was sampled. SW-2 was dry. TERRY also collected a sample from water supply well (WSW-1).

Sampling was conducted from the least contaminated wells to the most contaminated wells based on the previous assessment data. A clean purge pump with new disposable tubing was utilized for purging the deep wells with large casing volumes and/or adequate recharge rates. Groundwater samples were collected from each monitoring well with a new disposable bailer. Bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the volatile organic compounds (VOCs). The water supply well sample was collected after the well had run for approximately five minutes.

Trip blanks, field blanks, and field duplicates were prepared or collected in accordance with the SCDHEC UST QAPP, Revision 3.1. One trip blank was shipped with each cooler and analyzed for VOCs. One field blank was collected for each day of sampling and analyzed for VOCs and 1,2-Dibromoethane (EDB). One field duplicate was collected for each batch of twenty samples and analyzed for VOCs and EDB. An additional field blank and field duplicate were collected for the water supply well sample and analyzed for VOCs and EDB.

Samples were immediately packed in a cooler of ice and proper temperatures were maintained in accordance with the SCDHEC UST QAPP, Revision 3.1 and the site-specific Addendum. At the completion of the sampling event, the samples were submitted to a SCDHEC certified laboratory for analyses. The samples were analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, Methyl tertiary butyl ether, 1,2-Dichloroethane, Oxygenates, Ethanol, and EDB. The water supply well sample, associated blank, and duplicate were analyzed per the drinking water methods.

Field conditions were documented throughout the sampling event. All field measurement equipment was properly cleaned and decontaminated before use, between each well, and prior to site departure in accordance with "Appendix H: Standard Field Cleaning Procedures" of the SCDHEC UST QAPP, Revision 3.1. By-products were initially stored onsite in a 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G. The field measurement equipment was properly



calibrated prior to the sampling event and verified after four (4) hours of use and at the completion of the event. The calibration data for the sampling event is provided in Appendix B.

Depth to groundwater measurements were taken with reference to the top of well casing (TOC) and converted to elevations by subtracting the depth to groundwater measurements from the TOC elevations. Potentiometric data are provided in Section I as Table 2 and on the Groundwater Sampling Logs provided in Appendix B.

2. Purging Methodology

Purging was conducted from the least contaminated wells to the most contaminated wells based on the previous sampling data. Prior to purging, new plastic sheeting was placed on the ground surface around the well to prevent contamination of pumps, hoses, meters, etc. When utilized, the purge pump was lowered approximately 3-5 feet into the standing water column and adjusted only if the pumping rate exceeded the recovery rate as drawdown occurred. For monitoring wells with smaller casing volumes, a new disposable bailer was utilized for purging. When utilized, bailers with new colorless nylon rope were slowly lowered into the top of the water column, allowed to fill, and slowly removed to minimize turbidity and disturbance of the VOCs. In accordance with the SCDHEC UST QAPP, Revision 3.1, an adequate purge was achieved when pH, specific conductance, and temperature of the groundwater stabilized, and turbidity either stabilized or was below 10 nephelometric turbidity units (NTUs). The purge water generated was initially stored onsite in 55-gallon drums. The water generated was transported to US Water Recovery for disposal and the disposal manifest is provided in Appendix G.

If a well was pumped or purged dry, even with reduced purge rates, the well was considered adequately purged per the SCDHEC UST QAPP, Revision 3.1. The sample was collected immediately following sufficient recovery to fill all sampling containers. The groundwater measurements collected during the sampling event for the purged wells are provided as follows:



SECTION E -2 GROUNDWATER MEASUREMENTS (PURGE SAMPLING) MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA

		SCDH	EC UST PERM	AIT #02314	
02314-MW1	12/27/2018				
]	Free Product (2.10 ft	i.)
02314-MW2R	12/28/2018				
Volume (gal)	Initial	1.5	2.75	4/Sample	
Time (military)	1026	1028	1029	1031	
pH (su)	5.35	5.26	5.20	5.17	
Spec Conductivity (mS/cm)	0.149	0.101	0.099	0.097	
Water Temperature (°C)	22.3	22.4	22.5	22.5	
Turbidity (NTU)	0.1	488	491	497	
Dissolved Oxygen (mg/L)	1.22	1.49	1.50	1.52	
02314-MW3	12/27/2018				
Volume (gal)	Initial	1.75	3.5	5.25/Sample	
Time (military)	1840	1844	1848	1852	
pH (su)	5.84	6.01	6.05	6.11	
Spec Conductivity (mS/cm)	0.282	0.212	0.211	0.209	
Water Temperature (°C)	21.1	21.0	20.9	20.7	
Turbidity (NTU)	69.1	491	495	497	
Dissolved Oxygen (mg/L)	1.42	1.81	1.82	1.83	
02314-MW4	12/27/2018				
]	Free Product (0.40 ft	i.)
02314-MW5	12/28/2018				
Volume (gal)	Initial	1	2	3/Sample	
Time (military)	0844	0845	0847	0849	
pH (su)	5.07	5.08	5.09	5.09	
Spec Conductivity (mS/cm)	0.137	0.133	0.131	0.130	
Water Temperature (°C)	21.9	21.9	22.1	22.2	
Turbidity (NTU)	3.1	457	458	461	
Dissolved Oxygen (mg/L)	2.80	2.62	2.60	2.58	
02314-MW6	12/27/2018				
Volume (gal)	Initial	1.5	3	4.5/Sample	
Time (military)	1920	1923	1925	1927	
pH (su)	4.45	4.58	4.61	4.64	
Spec Conductivity (mS/cm)	0.064	0.052	0.049	0.048	
Water Temperature (°C)	21.7	21.7	21.7	21.7	
Turbidity (NTU)	19.1	46.7	47.0	47.3	
Dissolved Oxygen (mg/L)	2.23	1.71	1.70	1.68	
02314-MW7	12/27/2018				
Volume (gal)	Initial	1.5	2.75	4.25/Sample	
Time (military)	2027	2030	2032	2035	
pH (su)	4.80	4.98	5.03	5.01	
Spec Conductivity (mS/cm)	0.077	0.097	0.098	0.097	
Water Temperature (°C)	21.6	22.3	22.4	22.5	
Turbidity (NTU)	29.7	219	241	228	
Dissolved Oxygen (mg/L)	1.07	0.83	0.91	0.94	
02314-MW8	12/27/2018				
Volume (gal)	Initial	1.5	3.0	4.5/Sample	
Time (military)	2042	2045	2048	2051	
pH (su)	5.18	5.59	5.68	5.66	
Spec Conductivity (mS/cm)	0.099	0.125	0.127	0.127	
Water Temperature (°C)	21.2	22.2	22.4	22.5	
Turbidity (NTU)	33.5	42.8	43.2	44.6	
Dissolved Oxygen (mg/L)	1.24	1.13	1.08	1.12	



02314-MW9	12/26/2018					
Volume (gal)	Initial	1.5	3	4.0/Sample		
Time (military)	1527	1530	1532	1534		
pH (su)	5.57	4.44	4.41	4.35		
Spec Conductivity (mS/cm)	0.092	0.177	0.180	0.180		
Water Temperature (°C)	19.9	19.3	19.1	19.0		
Turbidity (NTU)	25.7	252	273	260		
Dissolved Oxygen (mg/L)	4.78	4.30	4.21	4.14		
02314-MW10	12/26/2018					
Volume (gal)	Initial	1.5	3	4.5/Sample		
Time (military)	1646	1648	1651	1654		
pH (su)	4.83	4.44	4.51	4.55		
Spec Conductivity (mS/cm)	0.095	0.095	0.095	0.096		
Water Temperature (°C)	21.3	20.7	20.5	20.3		
Turbidity (NTU)	39.4	415	418	420		
Dissolved Oxygen (mg/L)	3.68	3.93	3.94	3.96		
02314-MW11	12/26/2018					
Volume (gal)	Initial	1.75	3.5	5.25/Sample		
Time (military)	1658	1700	1704	1707		
pH (su)	5.35	4.99	4.95	4.91		
Spec Conductivity (mS/cm)	0.104	0.095	0.095	0.096		
Water Temperature (°C)	19.4	19.2	19.1	18.9		
Turbidity (NTU)	14.5	487	490	492		
Dissolved Oxygen (mg/L)	3.74	3.83	3.85	3.87		
02314-MW12	12/27/2018					
Volume (gal)	Initial	1.75	3.5	5/Sample		
Time (military)	1828	1831	1835	1837		
pH (su)	5.47	5.76	5.80	5.79		
Spec Conductivity (mS/cm)	0.106	0.156	0.158	0.158		
Water Temperature (°C)	20.6	20.7	20.7	20.8		
Turbidity (NTU)	36.2	64.2	81.3	72.2		
Dissolved Oxygen (mg/L)	0.96	1.17	1.28	1.24		
02314-MW13	12/27/2018					
Volume (gal)	Initial	1.5	3	5/Sample		
Time (military)	1721	1723	1727	1730		
pH (su)	5.66	5.60	5.59	5.57		
Spec Conductivity (mS/cm)	0.169	0.157	0.155	0.154		
Water Temperature (°C)	18.9	20.1	20.2	20.4		
Turbidity (NTU)	12.7	472	488	496		
Dissolved Oxygen (mg/L)	1.04	1.08	0.98	1.01		
02314-MW14	12/27/2018					
]	Free Product (0.50 f	t.)	
02314-MW15	12/27/2018					
Volume (gal)	12/2//2010				1	
	Initial	1.5	3.0	4.5/Sample		
Time (military)		1.5 1933	3.0 1937	4.5/Sample 1939		
pH (su)	Initial	1005200	1400,000			
pH (su) Spec Conductivity (mS/cm)	Initial 1931	1933	1937	1939		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C)	Initial 1931 4.47	1933 5.07	1937 5.08	1939 5.09		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU)	Initial 1931 4.47 0.178 21.6 22.7	1933 5.07 0.072	1937 5.08 0.070	1939 5.09 0.068		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C)	Initial 1931 4.47 0.178 21.6	1933 5.07 0.072 21.4	1937 5.08 0.070 21.3	1939 5.09 0.068 21.2		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU)	Initial 1931 4.47 0.178 21.6 22.7	1933 5.07 0.072 21.4 47.9	1937 5.08 0.070 21.3 48.1	1939 5.09 0.068 21.2 48.8		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L)	Initial 1931 4.47 0.178 21.6 22.7 2.16	1933 5.07 0.072 21.4 47.9	1937 5.08 0.070 21.3 48.1	1939 5.09 0.068 21.2 48.8		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L) 02314-MW16	Initial 1931 4.47 0.178 21.6 22.7 2.16 12/26/2018	1933 5.07 0.072 21.4 47.9 1.37	1937 5.08 0.070 21.3 48.1 1.36	1939 5.09 0.068 21.2 48.8 1.34		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L) 02314-MW16 Volume (gal)	Initial 1931 4.47 0.178 21.6 22.7 2.16 12/26/2018 Initial	1933 5.07 0.072 21.4 47.9 1.37	1937 5.08 0.070 21.3 48.1 1.36	1939 5.09 0.068 21.2 48.8 1.34		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L) 02314-MW16 Volume (gal) Time (military)	Initial 1931 4.47 0.178 21.6 22.7 2.16 12/26/2018 Initial 1454	1933 5.07 0.072 21.4 47.9 1.37	1937 5.08 0.070 21.3 48.1 1.36	1939 5.09 0.068 21.2 48.8 1.34 5.5/Sample		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L) 02314-MW16 Volume (gal) Time (military) pH (su)	Initial 1931 4.47 0.178 21.6 22.7 2.16 12/26/2018 Initial 1454 4.65	1933 5.07 0.072 21.4 47.9 1.37 1.75 1457 4.51	1937 5.08 0.070 21.3 48.1 1.36 2.5 1500 4.45	1939 5.09 0.068 21.2 48.8 1.34 5.5/Sample 1503 4.42		
pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L) 02314-MW16 Volume (gal) Time (military) pH (su) Spec Conductivity (mS/cm)	Initial 1931 4.47 0.178 21.6 22.7 2.16 12/26/2018 Initial 1454 4.65 0.088	1933 5.07 0.072 21.4 47.9 1.37 1.75 1457 4.51 0.100	1937 5.08 0.070 21.3 48.1 1.36 2.5 1500 4.45 0.102	1939 5.09 0.068 21.2 48.8 1.34 5.5/Sample 1503 4.42 0.101		



02314-MW17	12/26/2018						
Volume (gal)	Initial	1.25	2.25	3.25/Sample			
Time (military)	1511	1513	1516	1519			
pH (su)	4.64	4.59	4.57	4.55			
Spec Conductivity (mS/cm)	0.131	0.132	0.133	0.137			
Water Temperature (°C)	20.3	20.4	20.3	20.3			
Turbidity (NTU)	17.2	208	211	213			
Dissolved Oxygen (mg/L)	3.69	3.98	4.02	4.07			
02314-MW18	12/26/2018						
Volume (gal)	Initial	1.75	2.5	5.5/Sample			
Time (military)	1438	1441	1445	1450			
pH (su)	4.67	4.59	4.55	4.58			
Spec Conductivity (mS/cm)	0.114	0.114	0.113	0.114			
Water Temperature (°C)	19.9	19.9	19.9	20.0			
Turbidity (NTU)	61.3	488	482	493			
Dissolved Oxygen (mg/L)	4.59	4.25	4.16	4.19			
02314-MW19	12/26/2018						
			Ţ.	Free Product (>3.0	ft)		
02314-MW20	12/27/2018						
Volume (gal)	Initial	2	4	6/Sample			
Time (military)	1618	1621	1625	1628			
pH (su)	4.53	4.99	5.02	5.06			
Spec Conductivity (mS/cm)	0.195	0.135	0.136	0.136			
Water Temperature (°C)	21.7	21.2	21.2	21.1			
Turbidity (NTU)	82.8	474	469	491			
Dissolved Oxygen (mg/L)	2.36	1.51	1.42	1.37			
02314-MW21	12/26/2018						
Volume (gal)	Initial	2	4	6/Sample			
Time (military)	1315	1318	1321	1325			
pH (su)	5.07	4.75	4.68	4.71			
Spec Conductivity (mS/cm)	0.075	0.073	0.070	0.070			
Water Temperature (°C)	19.1	19.0	18.9	18.9			
Turbidity (NTU)	14.0	16.2	21.3	17.5			
Dissolved Oxygen (mg/L)	1.05	1.12	1.30	1.17			
02314-MW22	12/26/2018		T 4	6/6 1	1 1	5	1
Volume (gal) Time (military)	Initial 1231	2 1235	4	6/Sample 1243			
pH (su)	4.87		1239	1000-000			-
Spec Conductivity (mS/cm)	0.091	4.58 0.085	4.52 0.085	4.49 0.083			
Water Temperature (°C)	20.2	19.9	19.7	19.6			
Turbidity (NTU)		479	485	493			
Dissolved Oxygen (mg/L)	3.34	3.57	3.61	3.66			
02314-MW23	12/27/2018	5.51	5.01	3.00			
Volume (gal)	Initial	2.0	4.0	6.0/Sample	T T		
Time (military)	1505	1508	1511	1513			†
pH (su)	5.63	5.33	5.31	5.28			
Spec Conductivity (mS/cm)	0.121	0.078	0.075	0.075			
Water Temperature (°C)	20.8	20.8	20.7	20.7			
Turbidity (NTU)	495	476	483	497			
Dissolved Oxygen (mg/L)	1.36	1.98	2.11	2.04			
02314-MW24	12/26/2018						
Volume (gal)	Initial	2	4	6/Sample	Duplicate (DUP)		T
Time (military)	1739	1742	1744	1746	1748		
pH (su)	5.78	5.73	5.70	5.68	A		
Spec Conductivity (mS/cm)	0.087	0.206	0.207	0.207			
Water Temperature (°C)	18.6	18.6	18.5	18.4			
Turbidity (NTU)	346	481	489	493			
Dissolved Oxygen (mg/L)	1.21	2.58	2.59	2.61			
70 (8-)						Ñ	

02314-MW25	12/27/2018						
Volume (gal)	Initial	1.75	3.5	5.5/Sample			
Time (military)	1515	1518	1521	1524			
pH (su)	4.29	4.71	4.74	4.79			
Spec Conductivity (mS/cm)	0.205	0.081	0.081	0.079	i i		
Water Temperature (°C)	20.9	20.8	20.8	20.7			
Turbidity (NTU)	487	109	106	102			
Dissolved Oxygen (mg/L)	1.75	1.38	1.37	1.35			
02314-MW26	12/26/2018	1100	1107	1.50			
Volume (gal)	Initial	2	4	6/Sample			
Time (military)	1245	1248	1252	1255			
pH (su)	4.74	4.62	4.58	4.55	<u> </u>		
Spec Conductivity (mS/cm)	0.057	0.057	0.056	0.056			
Water Temperature (°C)	20.3	19.7	18.8	18.1	i i		
Turbidity (NTU)	231	84.4	81.2	78.4			
Dissolved Oxygen (mg/L)	3.44	2.95	2.90	2.87			
02314-MW27	12/27/2018	2.93	2.90	2.67			
Volume (gal)	12/2//2018 Initial	2	4	6.25/Sample		ı	
Time (military)	1548	1550	1553	1556			
pH (su)	4.68	4.71	4.66	4.69			
Spec Conductivity (mS/cm)					-		
Water Temperature (°C)	0.033 20.1	0.042 21.0	0.046 21.1	0.046 21.2	-		
	0.0000000000000000000000000000000000000	70025.5500	U-COASTACTO	16/3/00/04/5	-		
Turbidity (NTU)	33.1	470	462	488			
Dissolved Oxygen (mg/L)	1.10	1.73	1.82	1.74			
02314-DW1	12/26/2018			20/5			
Volume (gal)	Initial	7	14	20/Sample			
Time (military)	1552	1608	1618	1630			
pH (su)	6.14	5.91	5.88	5.80			
Spec Conductivity (mS/cm)	0.108	0.109	0.110	0.110			
Water Temperature (°C)	19.2	18.9	18.4	18.2	-		
Turbidity (NTU)	452	17.5	17.1	16.1			
Dissolved Oxygen (mg/L)	3.29	3.29	3.30	3.32			
02314-DW2	12/26/2018	I		_			
Volume (gal)	Initial	6.25/Dry/Sample					
Time (military)	1328	1356					
pH (su)	5.66	5.54					
Spec Conductivity (mS/cm)	0.072	0.049	<u> </u>				
Water Temperature (°C)	19.1	19.6					
Turbidity (NTU)	37.7	491					
Dissolved Oxygen (mg/L)	5.70	4.36					
02314-DW3	12/26/2018	Participation from the I		_			
Volume (gal)	Initial	7.0/Dry/Sample					
Time (military)	1208	1228					
pH (su)	5.24	5.98					
Spec Conductivity (mS/cm)	0.327	0.179					
Water Temperature (°C)	18.3	17.2					
Turbidity (NTU)	16.6	497					
Dissolved Oxygen (mg/L)	2.77	4.92					
02314-RW1	12/28/2018						
Volume (gal)	Initial	12	24	36/Sample			
Time (military)	0937	0940	0943	0946			
pH (su)	4.71	5.12	5.18	5.13			
Spec Conductivity (mS/cm)	0.120	0.158	0.160	0.160			
Water Temperature (°C)	22.9	22.5	22.4	22.4			
Turbidity (NTU)	0.0	1.3	0.9	3.2			
Dissolved Oxygen (mg/L)	2.09	1.97	2.11	2.02			

02314-RW2	12/28/2018	12/28/2018										
Volume (gal)	Initial	12	24	36/Sample								
Time (military)	1003	1007	1011	1015								
pH (su)	5.59	5.51	5.53	5.55								
Spec Conductivity (mS/cm)	0.681	0.687	0.690	0.690								
Water Temperature (°C)	21.3	21.2	21.2	21.2								
Turbidity (NTU)	0.5	0.3	1.2	0.0								
Dissolved Oxygen (mg/L)	0.99	2.18	2.23	2.27								
02314-RW3	12/27/2018											
Volume (gal)	Initial	12	24	36/Sample								
Time (military)	2005	2008	2012	2015								
pH (su)	5.28	5.19	5.15	5.18								
Spec Conductivity (mS/cm)	0.055	0.056	0.054	0.054								
Water Temperature (°C)	21.0	20.8	20.6	20.5								
Turbidity (NTU)	10.8	17.4	21.3	18.0								
Dissolved Oxygen (mg/L)	1.88	2.00	2.02	1.97								
02314-RW4	12/27/2018		A.S.									
Volume (gal)	Initial	14	28	40/Sample	Duplicate (DUP)							
Time (military)	1747	1751	1755	1759	1801							
pH (su)	4.51	4.52	4.47	4.46								
Spec Conductivity (mS/cm)	0.113	0.118	0.119	0.119								
Water Temperature (°C)	20.2	19.4	19.2	19.1								
Turbidity (NTU)	23.3	37.5	50.1	43.2								
Dissolved Oxygen (mg/L)	0.90	1.64	1.73	1.69								
02314-RW5	12/27/2018											
Volume (gal)	Initial	13	27	40/Sample								
Comment Comments of	1643	1649	1656	1700								
Time (military)	1015		20 MINOR	4.00								
Time (military) pH (su)	4.37	4.37	4.38	4.38								
South Control (Not to the Control of	INTERPORT	4.37 0.251	4.38 0.253	0.255								
pH (su)	4.37	100.0328.	000000000	345334516								
pH (su) Spec Conductivity (mS/cm)	4.37 0.249	0.251	0.253	0.255								

NOTES/KEY: gal = gallons su = standard unit

mS/cm = milliSiemens per centimeter NTU = nephelometric turbity units mg/L = milligrams per liter

3. Free Product Measurements

Free-phase petroleum was measured in MW-1 (2.10 feet), MW-4 (0.40 feet), MW-14 (0.50 feet), and MW-19 (>3.00 feet) on December 26, 2018 and December 27, 2018. Therefore, monitoring/recovery wells MW-1, MW-4, MW-14, and MW-19 were not sampled.

F. AFVR INFORMATION

Not Applicable. No Aggressive Fluid Vapor Recovery (AFVR) Events were performed during this scope of work.

G. GRANULATED ACTIVATED CARBON INSTALLATION

Not Applicable. No granulated activated carbon units were installed during this scope of work.



H. RESULTS & DISCUSSION

1. Assessment Results

During this scope of work, TERRY conducted a comprehensive groundwater sampling event between December 26, 2018 and December 28, 2018 in accordance with the SCDHEC UST QAPP, Revision 3.1 and the associated site-specific work plan submitted in November 2018. Source area wells MW-1, MW-4, MW-14, and MW-19 contain measurable free-phase petroleum.

The groundwater analytical data are summarized in Section I as Table 3, and are included in Appendix B. The analytical data were used to generate contaminant concentration maps for CoC's detected by the laboratory and are provided in Section J as Figures 4A and 4B. Based on the analytical data, groundwater contamination is present near the dispenser islands (MW-1, MW-2R, MW-3, MW-4, MW-7, MW-8, MW-14, MW-15, RW-1, RW-2, and RW-3), the UST basin (MW-13, MW-19, MW-20, RW-4, and RW-5), and migrating in the direction of groundwater flow to the north-northwest (MW-12, MW-23, MW-24, MW-25, and MW-27). The plume is now horizontal undefined down gradient to the north. The plume is vertically defined. The sample collected from the surface water location (SW-1) did not show evidence of petroleum contamination. The sample collected from the water supply well (WSW-1) did not show evidence of petroleum contamination.

The AFVR events conducted in June 2018 were successful at recovering contaminant mass and reducing free-phase product thicknesses in the monitoring/recovery wells. However, it should be noted that groundwater elevations were at a historic high during the sampling event conducted in December 2018. Per SCDHEC correspondence dated June 7, 2018 the subject site will undergo active corrective action to mitigate the petroleum impact. In the interim, TERRY recommends to conduct additional 96-hour AFVR events on the monitoring/recovery well network in the source area to continue to address the free-phase product.

2. Aquifer Evaluation Results

Not Applicable

3. Fate & Transport Results

Not Applicable

4. Tier 1 Risk Evaluation

Not Applicable



5. Tier 2 Risk Evaluation

Not Applicable

I. TABLES

1. Soil Analytical Data

Table 1 Soil Analytical Data - Not Applicable

2. Potentiometric Data

Table 2 Groundwater Potentiometric Data - Attached

3. Laboratory Data

Table 3 Groundwater Laboratory Data - Attached

4. Aquifer Characteristics

Table 4 Aquifer Characteristics - Not Applicable

5. Site Conceptual Model

Table 5 Site Conceptual Model - Not Applicable

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314 TERRY PROJECT #2171.9K

Sample		TOC	Screened	Depth to	Depth to	Product	Water Table			
Well #	Date	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation			
		ft	ft	ft	ft	ft	ft			
	3/19/1997			13.70	n/a	n/a	159.58			
	6/17/1997			16.07	n/a	n/a	157.21			
	12/9/2013			20.65	17.31	3.34	152.63			
02314-MW1	9/26/2014	173.28	10 to 20	19.60	16.82	2.78	153.68			
0231111111	2/2/2015	175.20	10 10 20			uct (1.20 ft)				
	1/3/2017			15.96	n/a	n/a	157.32			
	3/6/2018			20.53	19.08	1.45	152.75			
	12/27/2018			13.92	11.82	2.10	159.36			
	6/17/1997			16.04	n/a	n/a	84.02			
02314-MW2	12/9/2013	100.06	10 to 20			Not Find				
	9/29/2014					Not Find				
	9/29/2014			17.60	n/a	n/a	156.32			
	2/2/2015			15.72	n/a	n/a	158.20			
02314-MW2R	1/3/2017	173.92	10.3-20.3	15.96	n/a	n/a	157.96			
	3/6/2018		L	Dry						
	12/28/2018			12.18	n/a	n/a	161.74			
	6/17/1997			13.64	n/a	n/a	157.79			
	12/9/2013			15.86	n/a	n/a	155.57			
02314-MW3	9/26/2014	.=	10 to 20	15.65	14.70	0.95	155.78			
	2/2/2015	171.43				uct (1.0 ft)				
	1/3/2017			13.45	n/a	n/a	157.98			
	3/6/2018			17.07	n/a	n/a	154.36			
	12/27/2018			10.19	n/a	n/a	161.24			
	6/17/1997		10 to 20	15.75	n/a	n/a	157.64			
	12/9/2013			18.80	16.91	1.89	154.59			
00014 34774	9/26/2014	172.20		19.43	16.32	3.11	153.96			
02314-MW4	2/2/2015	173.39		Free Product (0.80 ft)						
	1/3/2017			15.69	n/a	n/a	157.70			
	3/6/2018			19.95	18.82	1.13	153.44			
	12/27/2018			13.04	13.44	0.40	160.35			
	9/29/2014 2/2/2015			18.51	n/a	n/a	156.46			
02314-MW5		174.97	0.0 to 10.0	17.10	n/a	n/a	157.87			
02314-WW 3	1/3/2017	174.97	9.9 to19.9			Gauged Ory				
	3/5/2018 12/28/2018			14.20			160.67			
				14.30	n/a	n/a	160.67			
	9/29/2014 2/2/2015			18.17 16.55	n/a n/a	n/a n/a	156.40 158.02			
02314-MW6	1/3/2017	174.57	10.1 to 20.1	10.33		Gauged	138.02			
02314-10100	3/6/2018	174.57	10.1 to 20.1			ory Try				
	12/27/2018			12.94	n/a	n/a	161.63			
	9/29/2014			18.09	17.86	0.23	156.11			
	2/2/2015			10.07		uct (0.27 ft)	150.11			
02314-MW7	1/3/2017	174.20	10.3 to 20.3	16.37	n/a	n/a	157.83			
0231 / 14144 /	3/6/2018	1, 1,20	10.5 to 20.5	19.86	19.83	0.03	154.34			
	12/27/2018			12.55	n/a	n/a	161.65			
	12/2/12010			14.33	II/ a	11/ a	101.03			

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9K

		TOC	Screened	Depth to	Depth to	Product Water Table		
Well #	Sample	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation	
	Date	ft	ft	ft	ft	ft	ft	
	9/29/2014	2.5	-	17.55	n/a	n/a	156.24	
	2/2/2015			16.11	n/a	n/a	157.68	
02314-MW8	1/3/2017	173.79	10.3 to 20.3	15.93	n/a	n/a	157.86	
0201111110	3/6/2018	170175	10.0 10 20.0	19.45	n/a	n/a	154.34	
	12/27/2018			12.25	n/a	n/a	161.54	
	9/29/2014			16.84	n/a	n/a	155.88	
	2/2/2015			14.73	n/a	n/a	157.99	
02314-MW9	1/3/2017	172.72	9.9 to19.9	- 11.10		auged	22.133	
	3/5/2018			18.30	n/a	n/a	154.42	
	12/26/2018			11.20	n/a	n/a	161.52	
	9/29/2014			15.85	n/a	n/a	156.24	
	2/2/2015			14.19	n/a	n/a	157.90	
02314-MW10	1/3/2017	172.09	10.3 to 20.3		Not C	Gauged		
	3/5/2018			17.79	n/a	n/a	154.30	
	12/26/2018			11.61	n/a	n/a	160.48	
	9/29/2014			15.95	n/a	n/a	156.12	
	2/2/2015		10.1 to 20.1	14.30	n/a	n/a	157.77	
02314-MW11	1/3/2017	172.07			Not C	auged	•	
	3/5/2018			17.83	n/a	n/a	154.24	
	12/26/2018			10.68	n/a	n/a	161.39	
	9/29/2014			16.40	n/a	n/a	156.14	
	2/2/2015			14.76	n/a	n/a	157.78	
02314-MW12	1/3/2017	172.54	10.3 to 20.3		Not C	auged		
	3/5/2018			18.31	n/a	n/a	154.23	
	12/27/2018			11.09	n/a	n/a	161.45	
	9/29/2014		10.3 to 20.3	17.20	n/a	n/a	155.44	
	2/2/2015			15.55	n/a	n/a	157.09	
02314-MW13	1/3/2017	172.64		14.95	n/a	n/a	157.69	
	3/6/2018			18.48	n/a	n/a	154.16	
	12/27/2018			11.13	n/a	n/a	161.51	
	9/29/2014			16.75	n/a	n/a	156.13	
	2/2/2015			15.15	n/a	n/a	157.73	
02314-MW14	1/3/2017	172.88	10.3 to 20.3		Not C	auged		
	3/5/2018			20.39	19.41	0.98	152.49	
	12/27/2018			13.40	13.90	0.50	159.48	
	9/29/2014			17.90	n/a	n/a	155.95	
	2/2/2015			15.85	n/a	n/a	158.00	
02314-MW15	1/3/2017	173.85	10.3 to 20.3	15.88	n/a	n/a	157.97	
	3/6/2018			19.43	n/a	n/a	154.42	
	12/27/2018			12.20	n/a	n/a	161.65	
	11/19/2014			21.50	n/a	n/a	155.47	
	2/2/2015			18.69	n/a	n/a	158.28	
02314-MW16	1/3/2017	176.97	16.0 to 26.0			auged		
	3/5/2018			22.29	n/a	n/a	154.68	
	12/26/2018			15.24	n/a	n/a	161.73	

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9K

XX 7.11.44	Sample	TOC	Screened	Depth to	Depth to	Product	Water Table			
Well #	Date	Elevation (1)	Interval	Water*	Product*	Thickness	Elevation			
	111512011	ft	ft	ft	ft	ft	ft			
	11/6/2014		L	20.10	n/a	n/a	156.03			
	2/2/2015			17.79	n/a	n/a	158.34			
02314-MW17	1/3/2017	176.13	10.4 to 20.4			Gauged				
	3/5/2018		Ĺ			ry	1			
	12/26/2018			14.24	n/a	n/a	161.89			
	11/6/2014			19.74	n/a	n/a	155.85			
	2/2/2015			17.40	n/a	n/a	158.19			
02314-MW18	1/3/2017	175.59	14.6 to 24.6			Gauged				
	3/5/2018			20.97	n/a	n/a	154.62			
	12/26/2018			13.91	n/a	n/a	161.68			
	11/6/2014			16.32	n/a	n/a	155.18			
	2/2/2015			14.15	n/a	n/a	157.35			
02314-MW19	1/3/2017	171.50	12.3 to 22.3	13.95	n/a	n/a	157.55			
	3/6/2018			17.22	17.02	0.20	154.28			
	12/26/2018				9.28	>3.0				
	11/6/2014		12.2 to 22.2	16.63	n/a	n/a	155.19			
	2/2/2015	1		14.35	n/a	n/a	157.47			
02314-MW20	1/3/2017	171.82		14.30	n/a	n/a	157.52			
	3/6/2018	1		17.74	n/a	n/a	154.08			
	12/27/2018	1		10.52	n/a	n/a	161.30			
	2/2/2015			16.55	n/a	n/a	157.42			
	1/3/2017		13.7 to 23.7		Not C	Gauged				
02314-MW21	3/5/2018	173.97		19.88	n/a	n/a	154.09			
	12/26/2018	1		12.59	n/a	n/a	161.38			
	2/2/2015			14.65	n/a	n/a	157.30			
	1/3/2017			Not Gauged						
02314-MW22	3/5/2018	171.95	12 to 22	17.98	n/a	n/a	153.97			
	12/26/2018			10.68	n/a	n/a	161.27			
	2/2/2015			13.72	n/a	n/a	157.31			
	1/3/2017	1	11.2 to 21.2	13.65	n/a	n/a	157.38			
02314-MW23	3/6/2018	171.03		17.04	n/a	n/a	153.99			
	12/27/2018	1		10.45	n/a	n/a	160.58			
	2/2/2015			12.54	n/a	n/a	157.24			
	1/3/2017	1		12.51		Gauged	157.21			
02314-MW24	3/5/2018	169.78	11 to 21	15.90	n/a	n/a	153.88			
	12/26/2018	1		8.70	n/a	n/a	161.08			
	2/2/2015			13.00	n/a	n/a	157.08			
	1/3/2017	1		13.00		Gauged	157.00			
02314-MW25	3/5/2017	170.08	11 to 21	16.26	n/a	n/a	153.82			
	12/27/2018	1		9.75	n/a	n/a	160.33			
	2/2/2015			12.24	n/a	n/a	156.97			
	1/3/2017	1		12,24		Gauged	130.77			
02314-MW26	3/5/2017	169.21	10.4 to 20.4	15.42	n/a	n/a	153.79			
	12/26/2018	1		8.18	n/a	n/a	161.03			
	12/20/2018			0.10	11/ a	11/ a	101.03			

TABLE 2 GROUNDWATER POTENTIOMETRIC DATA MARUTI KUNDAL (FORMER WINDSOR MART) CHERAW, SOUTH CAROLINA SCDHEC UST PERMIT #02314

TERRY PROJECT #2171.9K

Well #	Sample Date	TOC Elevation (1)	Screened Interval	Depth to Water*	Depth to Product*	Product Thickness	Water Table Elevation			
		ft	ft	ft	ft	ft	ft			
	2/2/2015			11.81	n/a	n/a	157.14			
02314-MW27	1/3/2017	168.95	10 to 20	Not Gauged						
02311111127	3/5/2018	100.93	10 to 20	14.97	n/a	n/a	153.98			
	12/27/2018			7.80	n/a	n/a	161.15			
	9/29/2014			16.97	n/a	n/a	156.62			
	2/2/2015			15.37	n/a	n/a	158.22			
02314-DW1	1/3/2017	173.59	49.6 to 54.6		Not C	Bauged				
	3/5/2018			17.33	n/a	n/a	156.26			
	12/26/2018			15.79	n/a	n/a	157.80			
	2/2/2015		44.6 to 49.6	16.59	n/a	n/a	157.78			
02314-DW2	1/3/2017	174.37			Not C	Gauged				
	3/5/2018	174.37		19.82	n/a	n/a	154.55			
	12/26/2018			13.06	n/a	n/a	161.31			
	2/2/2015		44.6 to 49.6	13.72	n/a	n/a	156.21			
02314-DW3	1/3/2017	169.93		Not Gauged						
02314-DW3	3/5/2018	109.93		16.50	n/a	n/a	153.43			
	12/26/2018			11.02	n/a	n/a	158.91			
	1/3/2017	Unknown		16.11	n/a	n/a	n/a			
02314-RW1	3/6/2018	Ulkilowii	10 to 30	19.80	19.51	0.29	n/a			
	12/28/2018	174.15		12.24	n/a	n/a	161.91			
	1/3/2017	Unknown		15.47	n/a	n/a	n/a			
02314-RW2	3/6/2018	Ulikilowii	10 to 30	19.93	18.63	1.30	n/a			
	12/28/2018	173.28		11.75	n/a	n/a	161.53			
	1/3/2017	Unknown			Not C	auged				
02314-RW3	3/6/2018	Ulikilowii	10 to 30	18.94	n/a	n/a	n/a			
	12/27/2018	173.17		11.78	n/a	n/a	161.39			
02314-RW4	12/27/2018	172.02	10 to 30	10.50	n/a	n/a	161.52			
02314-RW5	12/27/2018	172.04	10 to 30	10.70	n/a	n/a	161.34			

Notes:

All Data Prior to December 2013 collected by others

Corrected elevation = Water table elevation + [(0.77)(free product thickness)]

⁽¹⁾ TOC = Top of casing relative to an assumed data

^{* =} Measured relative to TOC

^{**}Corrected Elevation calculated using following equation:

							CROUND		LE 3	DV DATE								
							GROUND	WATER L	ABORATO R MART	OKY DATA	١.							
							CHE	RAW, SOU		LINA								
								RRY PROJ										
								HEC UST										
Well#	Sample Date	Benzene	Toluene	Ethyl benzene	Xylenes	Naph thalene	MTBE	1,2-DCA	EDB	Lead	TAME	TBA	DIPE	ЕТВЕ	ETBA	Ethanol	TAA	TBF
Units		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
RBSL		5	1,000	700	10,000	25	40	5	0.05	15	128	1,400	150	47	N/A	10,000	240	N/A
	3/19/1997	1,530	8,650	1,350	12,730	<100												
	6/17/1997	1,270	6,510	515	6,470	367	<1,000											
02314-MW1	12/9/2013 9/26/2014									Product (3.3 Product (2.7)								
02314-MW1	1/3/2017	15,000	46,000	2.800	17,000	440.I	<500	<500	Fre	Product (2.74	<5.000	<10,000	280.1	<500	<10:000	480,000	28,000	<2.500
	3/6/2018	15,000	40,000	2,000	17,000	4403	<500	<.500	Free	Product (1.4)		<10,000	200J	4300	<10,000	400,000	20,000	×2,300
	12/27/2018	_								Product (2.10								-
	6/17/1997	29	1.25	1.13	136.1	5.5	13.7											
02314-MW2	12/9/2013									Could Not Fin	d							$\overline{}$
	9/29/2014									Could Not Fin	d							
	9/29/2014	6,400	18,000	1,600	8,800	330	<200	<200			<2,000	<4,000	87J	<200	<4,000	<20,000	6,900	<1,000
02314-MW2R	1/3/2017	11,000	40,000	2,600	15,000	380	<200	<200			<2,000	<4,000	130J	<200	<4,000	<20,000	36,000	<1,000
02314-1411214	3/6/2018	Dry																
	12/28/2018	2,600	15,000	2,500	13,000	670	<100	<100	< 0.019		<1,000	<2,000	<100	<100	<2,000	<10,000	8,100	<500
	6/17/1997	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0											
	12/9/2013 9/26/2014	18.5	102	27.6	374	13.4	<1.00	<1.00	<0.010	<15.0 Product (0.9)	<5.00	<10.0	<5.00	<5.00	<100	<1,000	20.4	<50.0
02314-MW3	1/3/2017	11	17	36	260	28	<5.0	<5.0	- Fie	Product (0.9.	<50	<100	<5.0	<5.0	<100	<500	53J	<25
	3/6/2018	230	310	270	1,300	86	<5.0	5.6	<0.019		<50	<100	<5.0	<5.0	<100	<500	380	<25
	12/27/2018	95	61	110	590	52	<5.0	<5.0	<0.020		<50	<100	<5.0	<5.0	<100	<500	870	<25
	6/17/1997	5,430	14,300	1,960	19,360	1,090	<2.500											
	12/9/2013	Free Product (1.89 ft.)																
02314-MW4	9/26/2014								Fre	Product (3.1	1 ft.)							
02314-MW4	1/3/2017	15,000	42,000	3,000	17,000	470J	380J	<500			<5,000	<10,000	660	<500	<10,000	2,500,000	61,000	<2,500
	3/6/2018									Product (1.1)								
	12/27/2018								Fre	Product (0.4)								
	9/29/2014	13	110	16	100	4.8	<1.0	<1.0			<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-MW5	1/3/2017									Not Sampled								
	3/5/2018 12/28/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.019	Dry	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	9/29/2014	1.5	8.8	2.6	21	<1.0	<1.0	<1.0	<0.019		<10	<20	<1.0	<1.0	<20	<100	60	<5.0
	1/3/2017	1	0.0	2.0		V1.0	<1.0	<1.0		Not Sampled		420	VI.0	V1.0	420	<100	- 00	-0.0
02314-MW6	3/6/2018									Dry								$\overline{}$
	12/27/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.020		<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	9/29/2014								Fre	Product (0.2)	3 ft.)							
02314-MW7	1/3/2017	6,100	35,000	3,200	20,000	700	<500	<500			<5,000	<10,000	300J	<500	<10,000	<50,000	32,000	<2,500
02314-MW/	3/6/2018								Fre	Product (0.0	3 ft.)							
	12/27/2018	3,600	17,000	2,000	12,000	840	<100	<100	0.53		<1,000	<2,000	170	<100	<2,000	<10,000	17,000	<500
	9/29/2014	3,700	12,000	1,300	7,200	180J	<200	<200			<2,000	<4,000	<200	<200	<4,000	<20,000	6,700	<1,000
02314-MW8	1/3/2017	1,700	13,000	2,000	12,000	230	<100	<100			<1,000	<2,000	<100	<100	<2,000	<10,000	7,100	<500
	3/6/2018	1,300	2,800	350	4,300	100	<20	<20	< 0.020		<200	<400	18J	<20	<400	<2,000	11,000	<100
	12/27/2018	900	1,900	390	5,000	42	<20	<20	< 0.019		<200	<400	17J	<20	<400	<2,000	6,000	<100

GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9K SCDHEC UST PERMIT #02314 Naph Ethyl Well# Toluene MTBE 1,2-DCA TAME TBA ETBE ETBA TAA TBF Xylenes EDB Lead DIPE Ethanol thalene Date benzene ug/L 128 ug/L 1,400 ug/L N/A ug/L ug/L ug/L ug/L ug/L ug/L ug/L 240 150 0.51J 3.0 0.54J 3.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <100 <5.0 3/5/2018 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 < 0.019 <10 <20 <1.0 <1.0 <20 <100 <20 < 5.0 <1.0 < 0.019 <5.0 <1.0 <1.0 02314-MW10 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 < 0.019 <10 <20 <1.0 <1.0 <20 <100 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <20 <100 < 5.0 02314-MW11 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 12/26/2018 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 < 5.0 0.38J <1.0 <1.0 5.0 <1.0 <1.0 <10 <100 <5.0 02314-MW12 110 200 240 <1.0 <1.0 < 0.019 <10 0.79J <20 <100 3,200 <5.0 77.1 21,000 8,600 110J <200 <2,000 240 <4,000 <200 <4,000 <20,000 <1,000 3,400 12,000 1,300 9,100 320 <100 <100 <1,000 <2,000 <100 <100 <2,000 <10,000 10,000 <500 02314-MW13 1,800 1,800 440 340 11,000 <1,000 9/29/2014 1/3/2017 0.89J 5.9 0.99J 6.9 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 100 < 5.0 02314-MW14 3/5/2018 2,800 8,300 12,000 37,000 750 2,800 5,100 37,000 19,000 <200 <200 <2,000 <4,000 <200 <4,000 <1,000 /3/2017 <200 <20,000 02314-MW15 17,000 5,300 2,000 8,600 340 <200 <200 <2,000 <4,000 <200 <200 <4,000 <20,000 10,000 <1,000 13,000 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <20 <100 <20 <5.0 02314-MW16 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <1.0 <100 < 5.0 11/6/2014 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 <20 < 5.0 02314-MW17 3/5/2018 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <1.0 <100 02314-MW18 3/5/2018 <1.0 15,000 1,500 320 78,000 1/6/2014 4,100 8,300 <200 <200 <2,000 <4,000 4,000 <1,000 5,800 19,000 1,600 8,900 230 <100 <100 <1,000 <2,000 190 <100 <2,000 1,500,000 5,400 <500 02314-MW19

GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9K SCDHEC UST PERMIT #02314 Ethyl Well# Toluene MTBE 1,2-DCA TAME TBA ETBE ETBA TBF Xylenes EDB Lead DIPE Ethanol TAA Date thalene ug/L 15 ug/L 10,000 ug/L N/A ug/L ug/L 10,000 ug/L ug/L 128 ug/L 1,400 ug/L ug/L 240 ug/L ug/L N/A 3,300 19,000 <100 <500 1,300 2,000 76 41 <200 <400 <400 <2,000 <2,000 <1,000 2,300 3,600 3/6/2018 350 4,200 180 <50 <50 < 0.019 <500 <1,000 43J < 50 <1,000 <5,000 4,600 <250 840 4,300 220 <1,000 <1,000 <5,000 9,900 02314-MW21 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.019 <10 <20 <1.0 <1.0 <20 <100 16J <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 < 0.019 <20 <20 <100 <20 < 5.0 02314-MW22 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 12/26/2018 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 < 5.0 5,000 2,200 5,500 540 300 4,000 2,300 <100 62 <2,000 <1,000 <2,000 <1,000 <10,000 <5,000 2,700 2,300 <500 <250 <100 < 0.019 16 <1,000 <100 02314-MW23 1,800 520 3,200 110 <50 <50 < 0.019 <500 <1,000 <50 <50 <1,000 <5,000 6,800 <250 120 <1.0 0.81J <1.0 4.2J <1.0 <1.0 2.1 <1.0 02314-MW24 11,000 9,400 740 780 91J 87J 4,000 <100 <1,000 <2,000 <2,000 02314-MW24 (DUP) 2,100 9,300 730 3,900 82 <50 <500 <1,000 <50 <1,000 <5,000 3,300 <250 34 <1.0 <5.0 /3/2017 02314-MW25 220 <5.0 < 5.0 <5.0 <50 <100 <100 620 600 52 <1.0 <1.0 <1.0 <1.0 <5.0 <1.0 <1.0 <1.0 <0.019 <10 <10 <20 <1.0 <1.0 <20 <100 <20 02314-MW26 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 3.1 <1.0 <1.0 3.4 <1.0 <1.0 <1.0 9.8J <20 <1.0 <1.0 <100 24 <5.0 02314-MW27 240 4.4J 4.8J 3/5/2018 6.4 33 < 5.0 < 5.0 < 0.019 <50 52J 4.8J <5.0 <100 <500 1,200 <25 380 1,700 0.85J 1/3/2017 02314-DW1 <1.0 <1.0 <1.0 0.42J <1.0 <1.0 <1.0 <0.019 <10 <20 <1.0 <20 <100 <5.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.020 <10 <20 <20 <100 <20 Not Sample 02314-DW2

GROUNDWATER LABORATORY DATA WINDSOR MART CHERAW, SOUTH CAROLINA TERRY PROJECT #2171.9K SCDHEC UST PERMIT #02314 Ethyl Naph Well# Toluene MTBE 1,2-DCA EDB Lead TAME TBA ETBE TAA TBF Xylenes DIPE ETBA Ethanol thalene Date benzene ug/L ug/L 15 ug/L 128 ug/L 1,400 ug/L N/A ug/L ug/L ug/L ug/L 150 240 46 7.8 0.61J 24 <1.0 < 0.019 <10 <20 <1.0 <1.0 <20 <100 24 < 5.0 0.79J 3/5/2018 1.1 <1.0 <1.0 <1.0 <1.0 <1.0 < 0.020 <10 <20 <1.0 <1.0 <20 <100 <20 < 5.0 <5.0 02314-RW1 3/6/2018 11,000 32,000 7,900 24,000 16,000 13,000 810 280 190J <4,000 <2,000 <4,000 <4,000 770,000 <4,000 140,000 2.8 <1,000 02314-RW2 3/6/2018 7,900 38,000 3,100 17,000 610 <200 <200 <0.019 <2.000 <4.000 <200 <200 <4,000 240,000 5.400 <1.000 02314-RW3 3/6/2018 1,600 7,500 900 5,000 64J <100 <100 < 0.019 <1,000 <2,000 <100 <100 <2,000 <10,000 1,300J <500 18,000 47,000 <1,000 9,800 49,000 5,500 32,000 3,100 <500 <500 0.076P <5,000 <10,000 <500 <500 <10,000 2,400,000 32,000 <2,500 7,000 3,600 <1.00 21,000 <3.00 630 <5.00 <2,000 <5.00 190J <5.00 <200 <5.00 <4,000 **490,000** <100 <1,000 8,700 <20.0 <1,000 <50.0 02314-RW5 31,000 <4,000 <1.00 <1.00 <1.00 < 0.010 <10.0 <100 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <100 <5.0 02314-SW1 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <100 <5.0 < 0.019 <1.0 <20 <20 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <100 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <20 <100 <20 <10 <20 02314-SW2 <1.0 <1.0 <1.0 <1.0 <1.0 150 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.0097 <100 <5.0 <5.0 <5.0 02314-FB1 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <0.019 <10 <1.0 <100 02314-FB2 <1.0 <1.0 <1.0 <1.0 <1.0 <100 <5.0 02314-TB <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10 <20 <1.0 <1.0 <20 <100 <5.0 02314-WSW FB1 < 0.50 < 0.0096

NOTES/KEV:
-- Not tested; not analyzed
RBSL = Risk-Based Screening Level
ug/L = micrograms per liter
mg/L = miligrams per liter
J = Estimated value
P = The RPD between two GC columns exceeds 40%
DUB = Dualises/Surveys and Surveys and

DUP = Duplicate

Bold lettering indicates parameter exceeds SCDHEC RBSL's except 1,2-DCA which is based on EPA limit

MTBE = Methyl tertiary bulyl ether
1,2-DCA = 1,2-Dichlorochhane
EDB = 1,2-Dibromochhane
EDB = 1,2-Dibromochhane
TAME = t-amyl methyl ether or tert-Amyl methyl ether
TAME = t-Buttanol or tert-Butyl Alcohol
DIPE = diisopropyl Ether or bopropyl ether

ETBE = Ethyl tert-butyl ether
ETBA = ethyl tert-butanol or 3,3-Dimethyl-1-butanol
TAA = tert-annyl alcohol
TBF = tert-butyl formate
FB = Field Blank
TB = Trip Blank

J. FIGURES

1. Topographic Map

Figure 1 Topographic Map - Attached

2. Site Base Map

Figure 2 Site Base Map - Attached

3. CoC Site Maps

Figure 3 Soil CoC Map - Not Applicable

Figure 4A Groundwater CoC Map - Attached

Figure 4B Groundwater CoC Map (Oxygenates) - Attached

4. Site Potentiometric Maps

Figure 5A Site Potentiometric Map (Shallow) - Attached

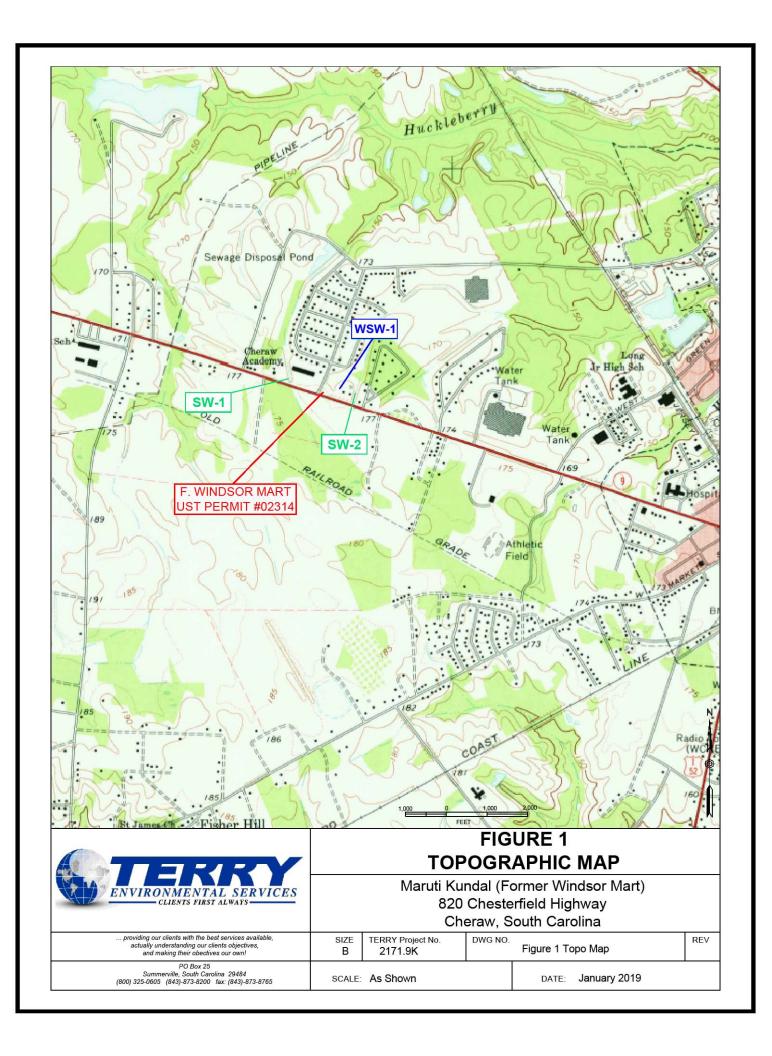
Figure 5B Site Potentiometric Map (Deep) - Attached

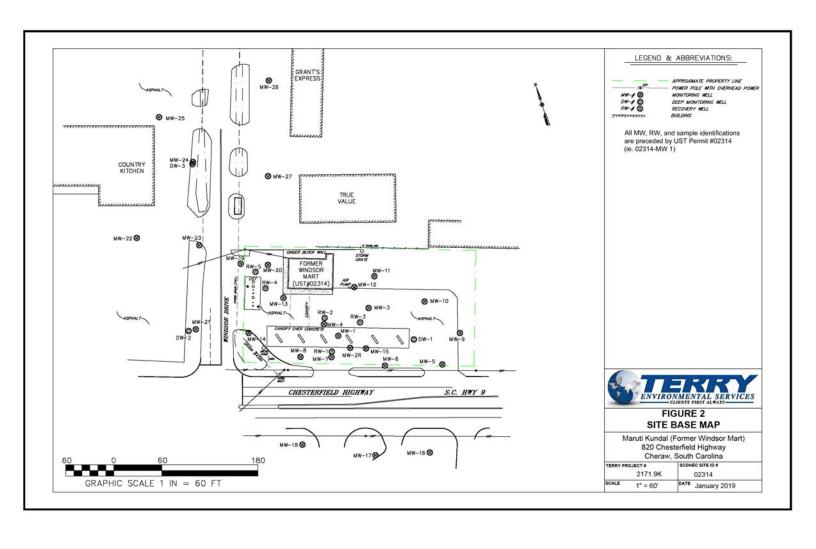
5. Geologic Cross Sections

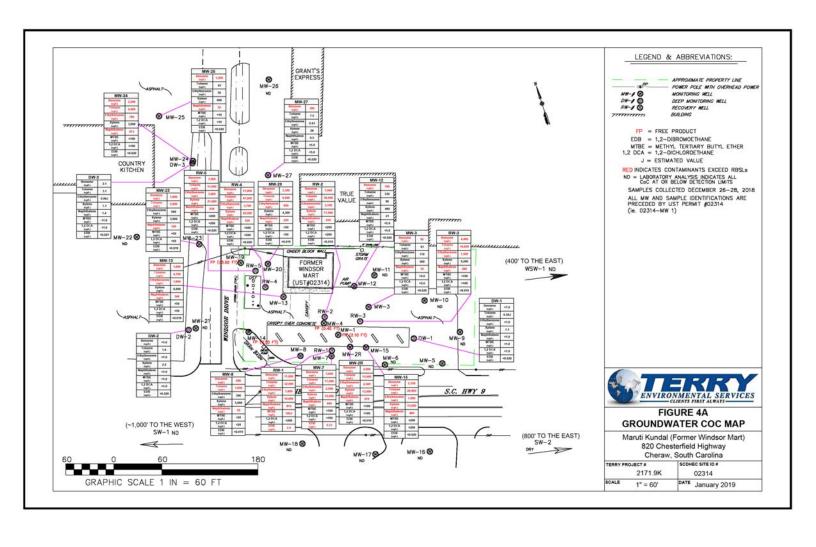
Figure 6 Geologic Cross Sections - Not Applicable

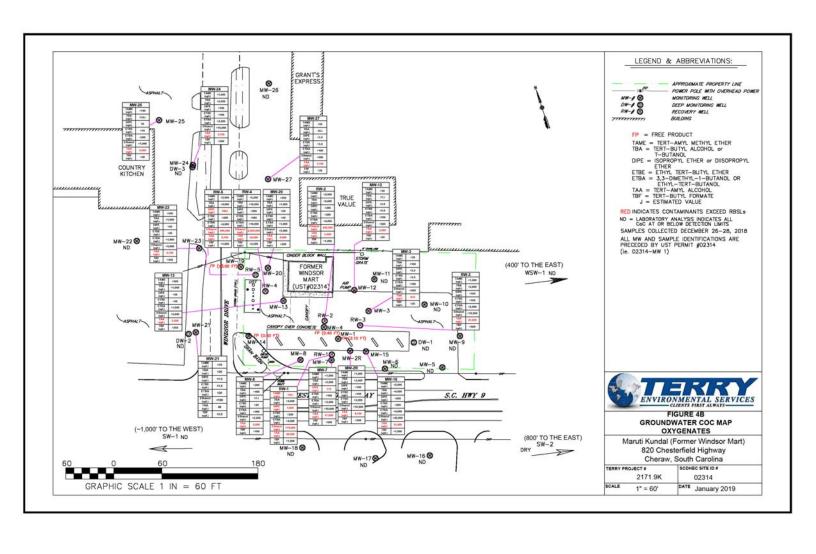
6. Predicted Migration and Attenuation of CoCs

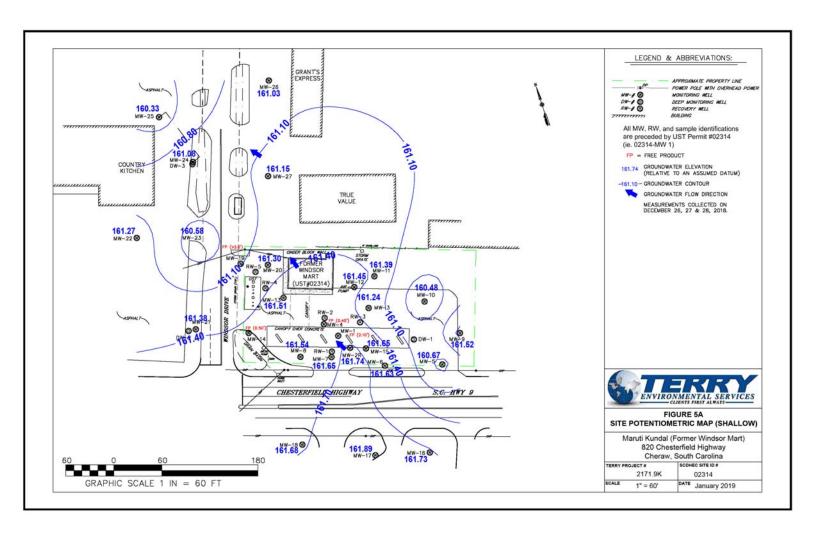
Figure 7 Predicted Migration and Attenuation of CoCs - Not Applicable

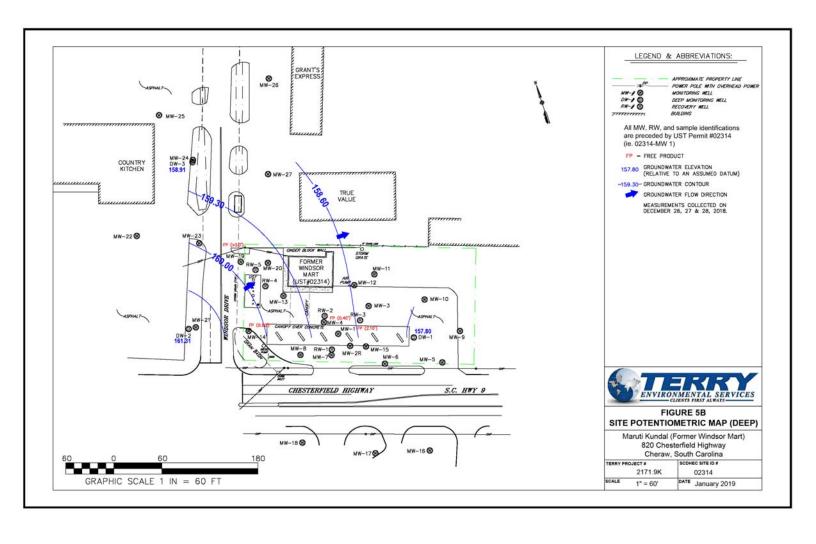












K. APPENDICES

1. Appendix A: Site Survey

Not Applicable

2. Appendix B: Sampling Logs and Laboratory Data

3. Appendix C: Tax Map

Not Applicable

4. Appendix D: Soil Boring/Field Screening Logs

Not Applicable

5. Appendix E: Well Completion Logs/SCDHEC 1903 Forms

Not Applicable

6. Appendix F: Aquifer Evaluation Forms

Not Applicable

- 7. Appendix G: Disposal Manifest
- 8. Appendix H: Local Zoning Regulations

Not Applicable

9. Appendix I: Fate and Transport Modeling Data

Not Applicable

10. Appendix J: Access Agreements

Not Applicable

11. Appendix K: Data Verification Checklist

APPENDIX A

Site Survey (Not Applicable)

APPENDIX B

Sampling Logs and Laboratory Data

TER	KY En	vironmental .	Services	5			44.0		P.O. Box 25 lle, SC 29484 00-325-0605
	Site Specific I	Information			Λ	Aonitoring V	Vell Informa	ition	
Terry Projec	et ID	2171.9K				Well ID	023	14- MW),
SCDHEC Permit	No.	02314					DTEV N	MTDC	2 DC4
Project N	ame Maru	ti Kundal (Former Windso	r Mart)		Test	ing Parameters	The second second second second	ph, MTBE, Ites, Ethanol,	
	Date	12 /27 /2018					Oxygenates, Ethanol,		& EDB
Field Perso	nnel	KH BF				Well Diameter	2	in	TAG
General Wea	ither	den			Sc	reened Interval	10-20	ft	BOTTOM OF
Ambient Air Tempera	iture	454		Tota	ıl Well Dep	th (nearest 0.1')	20.0	ft	WELL TO VERIFY
	Quality As	ssurance		Depth to C	Groundwate	er (nearest 0.01')	13.92	fì	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2		Length of	Water Column	6.08	fì	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9		1 Casing	Volume (0.163)		fì	BELOW TO
Calibration Constant	4.00 su	4.00 su Calibration Constant 4.00 su			3 Casing V	/olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm		Total	Volume Purged		gals	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU			ized (bailer, pum			20.0
Last Calibration (time)	02/50	Last Verification (time)		Well	l Yield	Low 🗆	Medium 🗆	High 🗆	20.0
Volume (1					
Time (milit	(ary) 0925	N 1 5		_					
рН	(su))	7) 4	. 11		
Spec Conductivity (mS)	/cm) /		_	-					
Water Temperature	(°C)	1 0 -	,	1 '	1				
Turbidity (N									
Dissolved Oxygen (m									
	Well Condition	Information					l Comments		24-54
-overall condition accepto	able?			No 20	MPLE	Taken D	WE TO PR	lee prep	uct
		d well cap - > we re	placed it		.82 F			9 ₂ 0) 1902 1s	
-manhole and cover accepto	able? MISCHY	2 of 2 bolts		- 6 XI	enes 1	UNTIL GRO	MOWATE	e reactu	rp q
-well pad accepto	able?	•			13.92		1.94100	A	
-area s	·			UTGI	cen gth	1 of frei	FREGUET	2. Fee T	
-other comn	nents								



P.O. Box 25 ERRY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9K Well ID 02314 - MWZR SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB 12 /28/2018 Field Personnel Well Diameter TAG General Weather dercas Screened Interval 10.3-20.3 ft OTTOM OF Ambient Air Temperature Total Well Depth (nearest 0.1') WELL TO ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') ft WELL DEPTH. Horiba U-52-2 Meter Horiba U-52-2 Length of Water Column ft Meter WRITE Serial Number VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) ft or Serial Number BELOW TO NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su 3 Casing Volumes (0.489) 78 gals 0.1' Calibration Constant 4.49 mS/cm Calibration Constant 4.49 mS/cm Total Volume Purged gals Purge Technique Utilized (Kailer, pump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant 9.9 Last Calibration (time) Last Verification (time) Well Yield Low Medium High 🗆 0735 1.5 2.75 Volume (gal) 028 Time (military) 029 103 1026 5.17 5.26 5.20 pH (su) 0.09-Spec Conductivity (mS/cm) 0.101 0.099 22.4 Water Temperature (°C) 22.3 488 Turbidity (NTU) 401 497 Dissolved Oxygen (mg/L) 140 1.50 .57 Well Condition Information Additional Comments -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TERR	CLIENT	S FIRST ALWA	rs —	Services	<u> </u>				Summervil	P.O. Box 25 le, SC 29484 00-325-0605
Sit	e Specific I	Informatio	n			M	onitoring W	ell Informa	tion	
Terry Project ID		217	1.9K				Well ID	0231	4- MW	3
SCDHEC Permit No.		02	2314					DTEV No.	L MTDE 1	2 DC4
Project Name	Maru	ti Kundal (Fo	ormer Windso	r Mart)		Testin	ig Parameters		oh, MTBE, 1 es, Ethanol,	555
Date		12 27						Oxygenau	os, Ethanoi,	C LDD
Field Personnel		KH	3F			ļ	Well Diameter	2	in	TAG
General Weather		01 20	cast			Scre	eened Interval	10-20	ft	BOTTOM OF
Ambient Air Temperature		55	. F		Total Well Depth (nearest 0.1			19.6	ft	WELL TO VERIFY
	Quality As	ssurance			Depth to Gi	roundwater	(nearest 0.01')	10.19	ft	WELL
Meter Hor	riba U-52-2		Meter	Horiba U-52-2		Length of V	Vater Column	9.41	ft	DEPTH, WRITE
Serial Number VI	PTPGA3X	or S	erial Number	V3KNWUE9		1 Casing V	olume (0.163)	1.53	fìt	BELOW TO
Calibration Constant	ant 4.00 su Calibration Constant 4.00 su			3	Casing Vo	lumes (0.489)	4.60	gals	NEAREST 0.1'	
Calibration Constant 4.	stant 4.49 mS/cm Calibration Constant 4.49		4.49 mS/cm		Total V	olume Purged	5.25	gals		
	0.0 NTU				Purge Techi	rique Utiliz	ed (bailer, pum			196
Last Calibration (time) 0	820	Last Verification (time) 1500		1500	Well	Yield	Low 🗆	Medium 🗷	High 🗆	1 4.0
Volume (gal)	INT	1.75	3.5	5.25						
Time (military)	1840	1844	1848	1852						
	5.84	6.01	4.05	6.11						
Spec Conductivity (mS/cm)	0.282	0.212	0,211	0.209						
Water Temperature (°C)	321.1	21.0	20.9	20.7						
Turbidity (NTU)		491	495	497						
Dissolved Oxygen (mg/L)		1.81	1,82	1.83						
Well	Condition	Informati	on				Additiona	l Comments		
-overall condition acceptable?	Vaul	+ full a	of water	of sedimen						
-well cap acceptable?										
-manhole and cover acceptable?	Missin	0 2/2	bolts							
-well pad acceptable?		85.00 U.S. 1								
-area safe?						/				
-other comments	-other comments					/				

TER	KY EY	LVITONN TS FIRST ALW		Services	2				1-8	P.O. Box 25 lle, SC 29484 300-325-0605
	Site Specific	Informatio	n			M	onitoring W	ell Informat	tion	
Terry Proje	et ID	21	71.9K				Well ID	0231		
SCDHEC Permi	t No.	0:	2314					DODGW N	1 ACEDE	12.004
Project N	Vame Mar	uti Kundal (Fe	ormer Windso	or Mart)		Testi	ng Parameters	BTEX, Nap	es, Ethanol,	
	Date	12/27	/2018					Oxygenate	s, Ethanoi,	& LDB
Field Perso	nnel	KH	BF			l l	Well Diameter	2	in	TAG
General We	ather	0	ear			Scr	eened Interval	10-20	ft	BOTTOM OF
Ambient Air Temper	uture		459=		Total	Well Deptl	h (nearest 0.1')	20.0	ft	WELL TO VERIFY
	Quality A	ssurance			Depth to G	roundwater	(nearest 0.01')	13.04	ft	WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2		Length of	Water Column	696	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or S	Serial Number	V3KNWUE9		1 Casing V	<i>'olume (0.163)</i>	/	ft	BELOW TO
Calibration Constant	4.00 su	Calibra	ution Constant	4.00 su		3 Casing Va	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total Volume Purged			gals	
Calibration Constant	0.0 NTU		ation Constant	0.0 NTU	Purge Tech	nique Utiliz	ed (bailer, pum			20.0
Last Calibration (time)	0420	Last Veri	fication (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	200
Volume	(gal) INT									
Time (mili	tury) 3944				4 -					
рН	(su)	1	,	TI						
Spec Conductivity (mS	(cm)	1	(-							
Water Temperature	(°C)	1/								
Turbidity (!				1						
Dissolved Oxygen (n	• .									
	Well Condition	n Informati	on				Agent Account agreement account of the country	l Comments		1
-overall condition accept	able?	of witer			No Sav	uple du	e to freep	really reach	13 44 A	, extents
-well cap accept	able?	27	1		fer	0.4017	in I have	inter reach	@ 13	64 A
-manhole and cover accept		2 of 2 bo	15			30	A 70		v 650 A	ACTION
-well pad accept					<u> </u>					
-area	sufe?									
-other com	nents									



TER	RYEN	vironm es first alwa	ental .	Services	5					P.O. Box 25 lle, SC 29484 300-325-0605
	Site Specific .	Information	11			N.	Ionitoring V	Vell Informa		00-323-0003
Terry Proje	ect ID	217	1.9K				Well ID		4-MW5	
SCDHEC Perm	it No.	02	2314		Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sales Sa			DEEK N	l summer i	
Project !	Name Maru	ti Kundal (Fo	rmer Windso	or Mart)	1	Test	ing Parameters		oh, MTBE, 1	
	Date	12/28	/2018					Oxygenate	es, Ethanol,	& EDB
Field Pers	onnel	KH	BF				Well Diameter	2	in	72070720
General We	ather	de	1cust			Sci	reened Interval	9.9-19.9	ft	TAG BOTTOM OF
Ambient Air Temper			0°F		Total	Well Dept	th (nearest 0.1')	19.9	ft	WELL TO VERIFY
	Quality A.	ssurance	A 6		Depth to Gre	oundwate	r (nearest 0.01')	14.30	ft	WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2	I	ength of	Water Column	5.60	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	GA3X or Serial Number V3KNWUE9			1 Casing Volume (0.163)		0.9	ft	BELOW TO	
Calibration Constant	4.00 su	Calibra	tion Constant	4.00 su	3	Casing V	olumes (0.489)	2.73	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibra	tion Constant	4.49 mS/cm			olume Purged	3.00	gals	
Calibration Constant	0.0 NTU		tion Constant	0.0 NTU	Purge Techni	ique Utili.	zed (hailer) pum			19.9
Last Calibration (time)	0735	Last Verif	ication (time)		Well Y	ield	Low	Medium 📈	High 🗆	1001
Volume			2	3						
Time (mil	()	0845	0847	0849						
рН	1 (su) 5.67	5.08	5.09	5.09						
Spec Conductivity (m.	S/cm) 0 37	0.133	0.131	0. 30						
Water Temperature		21.9	22.1	22.2						
Turbidity (457	458	961						
Dissolved Oxygen (n		2.62	2.60	2.58						
Well Condition Information							Additiona	l Comments		
-overall condition acceptable?										
-well cap accept										
-manhole and cover accept										
-well pad accept										
	-area safe?						_/			
-other comments										



TER	KRY En	vironmental ,	Services	5				P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information		1	Monitoring V	Vell Informati		VV 323 0003
Terry Proje	ect ID	2171.9K			Well ID	0231	4 - MW6)
SCDHEC Perm	it No.	02314				DTEV N	LATER	2.004
Project :	Name Marı	ıti Kundal (Former Windso	or Mart)	Tes	ting Parameters		oh, MTBE, 1	
	Date	2 /27 /2018				Oxygenates, Ethanol,		& EDB
Field Pers	onnel	FH BF			Well Diameter	2	in	
General We	eather	derest		S	creened Interval	101-201	ft	TAG BOTTOM OF
Ambient Air Temper		554		Total Well Dep	oth (nearest 0.1')	20.2	ft	WELL TO VERIFY
	Quality A.	ssurance		Depth to Groundwat	er (nearest 0.01')	12.94	ft	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2	Length o	f Water Column	7.26	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	1 Casing	Volume (0.163)	1.18	ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	4.00 su	3 Casing	Volumes (0.489)	3.55	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	Total	Volume Purged	4.5	gals	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 ŅTU	Purge Technique Util		20.2		
Last Calibration (time)	0820	Last Verification (time)	1200 1900	Well Yield	Low 🗆	Medium 🔏	High 🗆	20.2
Volume		1.5 3	4.5			34		
Time (mil		923 925	1927					
	4 (su) 4.45	4.58 4.61	4.64					
Spec Conductivity (m.	S/cm) 0.004	0.052 0.049	0,048					
Water Temperature		21.7 21.7	21.7					
Turbidity (46.7 47.0	47.3					
Dissolved Oxygen (r		1.71 1.70	1.08		11111			
	Well Condition	a Information			Additiona	l Comments		
-overall condition accep						_/_		
-well cap accep								
-manhole and cover accep								
-well pad accep	-							
	safe?							
-other com	iments							

TERR	Y En	Vironn Is first alwa	nental .	Services	5				Summervil	P.O. Box 25 le, SC 29484 00-325-0605
Si	ite Specific 1	Informatio	n		12	M	Conitoring W	Vell Informa	tion	
Terry Project ID		217	71.9K				Well ID	-0231	4 - MW7	
SCDHEC Permit No.		02	2314					DEEN N	1 MEDE 1	2.004
Project Name	Maru	ti Kundal (Fo	ormer Windso	r Mart)	1	Testi	ng Parameters	25.0	oh, MTBE, 1 es, Ethanol,	
Date	,	2/27	/2018					Oxygenat	es, Ethanol,	& EDB
Field Personne	1	KH	BF				Well Diameter	2	in	
General Weather		E.	es overa	st		Ser	reened Interval	10-3-20-3	ft	TAG BOTTOM OF
Ambient Air Temperature	,		MINT 55		Total	Well Dept	h (nearest 0.1')	205	ft	WELL TO VERIFY
	Quality A:	ssurance		•	Depth to Gr	oundwater	r (nearest 0.01')	12.55	ft	WELL
Meter H	oriba U-52-2		Meter	Horiba U-52-2		Length of	Water Column	7.95	ft	DEPTH, WRITE
Serial Number \	/PTPGA3X	or S	Serial Number	V3KNWUE9		1 Casing V	/olume (0.163)	1.30	ft	BELOW TO
Calibration Constant	4.00 su	00 su Calibration Constant 4.00 su			3	Casing Ve	olumes (0.489)	3.89	gals	NEAREST 0.1'
Calibration Constant 4	1.49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	olume Purged	4.25	gals	0.1
Calibration Constant	0.0 NTU		tion Constant	0.0 NTU	St. Lillian 1999 Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.		zed (bailer, pum	and the same of th		205
Last Calibration (time)	0820	Last Verif	fication (time)	1500/1900	Well	Yield	Low 🗆	Medium 🖳	High 🗆	20.7
Volume (gal)		1.5	2.75	4:25				,		9
Time (military)		2030	2032	2035						1
pH (su)	4.80	498	5.03	5.0						3
Spec Conductivity (mS/cm)	0.077	0.097	0.098	0-097						
Water Temperature (°C)		22.3	22.4	22.5						
Turbidity (NTU)		20	241	228						
Dissolved Oxygen (mg/L)		0.83	0.91	0.94						
CONT.	ll Condition	Information	on			1	Additiona	l Comments		
-overall condition acceptable?	45				model	ste per	vel oder			
-well cap acceptable?	·					11 2				
-manhole and cover acceptable?	,	4.								
-well pad acceptable?										
-area safe?										
-other comments	V									

TER	RYEN	Vironn TS FIRST ALW	nental .	Services	<u> </u>						P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Informatio	n			M	onitoring V	Vell Info	rmat		
Terry Project	ID	21	71.9K				Well ID			2WM-	
SCDHEC Permit !	Vo.	0	2314					DTEV	N	LATRE	2.004
Project Na	ne Marı	ıti Kundal (F	ormer Windso	r Mart)		Testi	ng Parameters			h, MTBE, 1	
Do	ute	12/17	/2018					Oxygenates, Ethanol, & EDE		X EDB	
Field Personi	nel	KH	BF				Well Diameter	2		in	m. c
General Weath	ier	Ove	scost			Scr	eened Interval			ft	TAG BOTTOM OF
Ambient Air Temperati	20000	. Se	54		Total Well Depth (nearest 0.1')			20,6	1	ft	WELL TO
Quality Assurance					Depth to G	roundwater	' (nearest 0.01')	12.25		ft	VERIFY WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2		Length of	Water Column	8.15		ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or 3	Serial Number	V3KNWUE9		1 Casing V	olume (0.163)	1.33		ft	BELOW TO
Calibration Constant	4.00 su	.00 su Calibration Constant 4.00 su			3 Casing Volumes (0.489)			3.99		gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibra	ation Constant	4.49 mS/cm	Total Volume Purged			4.5		gals	,
Calibration Constant	0.0 NTU		ation Constant	0.0 NTU	Purge Tech.	nique Utiliz	ed (bailer) pum		1		100
Last Calibration (time)	0620	Last Veri	ification (time)		Well	Yield	Low	Medium	X	High 🗆	20.4
Volume (g		1.5	3.0	4.5							
Time (milita	**	2045	2048	2051							
pH (s	(u) 5.10	5.59	5.68	5.66				J.			
Spec Conductivity (mS/c		0.125	0. 27	0.127							
Water Temperature (°		222	22.4	22.5							
Turbidity (NT		42.8	43.2	44.6							
Dissolved Oxygen (mg/		1.13	1.08	1.12							
	ell Condition	i Informati	ion				Additiona	l Comm	ents		
-overall condition acceptable	le?	(07)		el .				,			
-well cap acceptable	le?										
-manhole and cover acceptab	le? A missin	x 2421	2/15							r.	
-well pad acceptable	le?	V									
-area saj -other comme						/					

TER	RYEn	vironmental rs first always	Services	<u>S</u>	Çin.		Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific I	Information		Мо	nitoring W	'ell Informat	ion	
Terry Project	t ID	2171.9K			Well ID	0231	4-MW	9
SCDHEC Permit	No.	02314				DTEV No.	L MTDE 1	2.004
Project No	ame Maru	ti Kundal (Former Winds	or Mart)	Testing	Parameters	BTEX, Nap	es, Ethanol,	
L	Date	12 /26/2018				Oxygenate	s, Emanoi,	& EDB
Field Person	nnel	KH BF		W	'ell Diameter	2	in	m. c
General Wear	ther	clear		Scree	ened Interval	9.9-19.9	ft	TAG BOTTOM OF
Ambient Air Temperat		55.F		Total Well Depth	(nearest 0.1')	19.9	ft	WELL TO VERIFY
	Quality As	ssurance		Depth to Groundwater (nearest 0.01')	11.20	ft	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2	Length of W	ater Column	270	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	1 Casing Vol	lume (0.163)	1.20	ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	3 Casing Volu	umes (0.489)	3.77	gals	NEAREST 0.1'	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm		ume Purged	4.0	gals	
Calibration Constant	0.0 NTU	Calibration Constant		Purge Technique Utilized				199
Last Calibration (time)	1145	Last Verification (time)		Well Yield	Low	Medium 🗾	High 🗆	1-1,01
Volume (g		1.7 3	4.0					
Time (milite		1530 1532	1534					
pH (4,44 4,41	4.35					
Spec Conductivity (mS/		0.177 0.180	0.180					
Water Temperature (19.3 19.1	19.0					
Turbidity (N		252 273	260					
Dissolved Oxygen (mg		9.30 4.21	4.14					
	Well Condition	Information			Additiona	l Comments		
-overall condition accepta	ble?	V V						
-well cap acceptai	ble?							
-manhole and cover accepta	ble?							
-well pad accepta	ble?							
-area sa	afe?							
-other comm	ents	1						

RRY Environmental Services P.O. Box 25 Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9K Well ID 02314 - MW 10 SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) Project Name **Testing Parameters** Oxygenates, Ethanol, & EDB Date /26/2018 Field Personnel Well Diameter TAG General Weather Screened Interval 3-20.3 ft воттом он Ambient Air Temperature Total Well Depth (nearest 0.1') WELL TO 20.5 ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 11.61 ft WELL DEPTH, Meter Horiba U-52-2 Meter Horiba U-52-2 Length of Water Column ft 8.89 WRITE VPTPGA3X V3KNWUE9 Serial Number 1 Casing Volume (0.163) Serial Number 1.45 ft BELOW TO NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su 3 Casing Volumes (0.489) gals Calibration Constant 4.49 mS/cm 4.49 mS/cm Total Volume Purged Calibration Constant gals Purge Technique Utilized (bailer, pump) 0.0 NTU Calibration Constant Calibration Constant 0.0 NTU 20.5 Last Calibration (time) Last Verification (time) 1145 Well Yield Low Medium High 🗆 1545 Volume (gal) INT Time (military) 1446 165 4.44 4.51 pH (su) 4.83 Spec Conductivity (mS/cm) 0.095 0.096 20.7 Water Temperature (°C) 20.5 20.3 Turbidity (NTU) 415 418 420 Dissolved Oxygen (mg/L) 3.68 3.93 3.94 3.00 Well Condition Information Additional Comments -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

P.O. Box 25 KKY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9K Well ID 02314 - MWII 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB / 26 /2018 Date Well Diameter Field Personnel in TAG General Weather Screened Interval 10.1-20. воттом оғ WELL TO Ambient Air Temperature Total Well Depth (nearest 0.1') ft 20.1 VERIFY Depth to Groundwater (nearest 0.01') Quality Assurance 10. Leg ft WELL DEPTH, Meter Horiba U-52-2 Horiba U-52-2 Length of Water Column 9.42 ft Meter WRITE V3KNWUE9 VPTPGA3X 1 Casing Volume (0.163) ft Serial Number Serial Number BELOW TO NEAREST 3 Casing Volumes (0.489) Calibration Constant 4.00 su **Calibration Constant** 4.00 su 4.61 gals 0.1' 4.49 mS/cm 4.49 mS/cm Total Volume Purged gals Calibration Constant Calibration Constant Purge Technique Utilized (bailer, pump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant 20.1 Last Calibration (time) Last Verification (time) Well Yield Medium High Z 1545 Volume (gal) 3. 5 1704 700 1707 Time (military) 499 4.05 4.91 pH (su) Spec Conductivity (mS/cm) 0.095 0.096 0.095 0.104 Water Temperature (°C) 18.9 19.1 490 Turbidity (NTU) 492 3.85 Dissolved Oxygen (mg/L) 3 Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

	Site Spe	ecific I	nformation	1			M	onitoring W	ell Informat		00-325-06
Terry Proje				1.9K				Well ID		4 - MW/2	
SCDHEC Permi	it No.		02	2314					DTEV North MTDE 12 D		
Project /	Vame	Marut		rmer Windso	r Mart)	1	Testin	ng Parameters	BTEX, Naph, MTBE, 1,2-D Oxygenates, Ethanol, & El		
	Date		12/27	/2018					Oxygenate	s, Emanoi, e	X EDB
Field Perso	onnel		KH	BF.				Well Diameter	2	in	TAG
General We	ather		the second secon	ercast	247	Screened Interval		10.3-20.3	ft	воттом	
Ambient Air Temper				SIF				(nearest 0.1')	20.4	ft	WELL T
	Quality Assurance					Depth to G	roundwater	(nearest 0.01')	11.09	ft	WELL
Meter	Horiba U-			Meter	Horiba U-52-2		0 0	Water Column	9.3	ft	DEPTH
Serial Number	VPTPGA		-	erial Number	V3KNWUE9			olume (0.163)	52	ft	BELOW
Calibration Constant	4.00 s			tion Constant	4.00 su			olumes (0.489)	4.55	gals	NEARES 0.1'
Calibration Constant	4.49 mS			tion Constant	4.49 mS/cm			olume Purged	5	gals	
Calibration Constant Last Calibration (time)	0.0 NT			tion Constant ication (time)	0.0 NTU			ed (bailer), pump Low \[\textstyle \texts) Medium 😾		20.4
	0820				1500	Well	Yield -	LOW 🗆	Mealum	High 🗆	1
Volume			175	35	5						
Time (mil.		528	5.76	1835	1837						
Spec Conductivity (m.			0156	0.158	0.15%					-	
Water Temperature	,	-	20.7	20:7	20.0	4				- 17:	
	NTU) 3(0)		64.2	813	72.2						
Dissolved Oxygen (n			Liz	1.28	1.24		-				
,			Informatio		1.1			Additiona	l Comments		
-overall condition accept	table?	ec		- 20					/		
-well cap accept				A 181			4				
-manhole and cover accept	table?								- 11		
-well pad accept	table?			128			÷				
-area	safe?			790	be :		× .				
-other com	ments				10		2				

TER	KYEn	vironmental .	Services	<u> </u>		1		P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			Monitoring W	Vell Inform	ation	
Terry Proje	ect ID	2171.9K			Well ID	023	14 - MW/3	,
SCDHEC Permi	it No.	02314				DTEV N	MTDC 1	2 DC4
Project /	Vame Maru	ti Kundal (Former Windso	or Mart)	1	Testing Parameters	The control of the co	aph, MTBE, 1 ates, Ethanol,	
	Date	2 /27 /2018				Oxygene	ites, Ethanoi,	& LDB
Field Perso	onnel	KH BF			Well Diameter	2	in	TAG
General We	ather	apercast			Screened Interval		ft	BOTTOM OF
Ambient Air Temper	ature	559		Total Well I	Depth (nearest 0.1')	20.2	ft	WELL TO VERIFY
	Quality As	ssurance		Depth to Grounds	vater (nearest 0.01')	11.13	ft	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2	Lengtl	n of Water Column		ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	1 Casi	ng Volume (0.163)	1.48	ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	4.00 su	3 Casin	ig Volumes (0.489)	4.44	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm		tal Volume Purged		gals	100000
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU		Utilized (bailer, pum		,	20-2
Last Calibration (time)	OVZe	Last Verification (time)	1500	Well Yield	Low 🗆	Medium)	High 🗆	
Volume	(gal) UNT	15 3	S					
Time (mill		1723 1727	1730					
pH	1 (su) 5.60	5.60 5.59	5.5757					
Spec Conductivity (m.		0.157 0.155	0.154					
Water Temperature	(°C) 18.9	20. 20.2	20.4					
Turbidity (/		472 488	496					
Dissolved Oxygen (n		1.08 098	1.01					
	Well Condition	Information			Additiona	ıl Comment	's	
-overall condition accept	table?					/		
-well cap accept	table?							
-manhole and cover accept	table?							
-well pad accept	table?							
50.00	safe?							
-other com	ments							

TER		vironmental of the state of the	Services	<u>S</u>			Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information		Me	onitoring W	ell Informa		
Terry Proje	ect ID	2171.9K			Well ID	0231	4 - MW14	
SCDHEC Perm	it No.	02314				DTEV N	L MEDE 1	2.004
Project !	Name Mar	uti Kundal (Former Windso	or Mart)	Testin	g Parameters		oh, MTBE, 1 es, Ethanol,	A STATE OF THE PARTY OF THE PAR
	Date	12 /27 /2018				Oxygenates, Ethanol, &		& LDB
Field Perso	onnel	FH BF		ŀ	Vell Diameter	2	in	TAG
General We	ather	yeu		Scre	ened Interval	10.3-20.3	ft	BOTTOM OF
Ambient Air Temper		45%		Total Well Depth	(nearest 0.1')	20:3	ft	WELL TO VERIFY
	Quality Assurance				(nearest 0.01')	13.40	ft	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2	Length of W	Vater Column	6.90	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	1 Casing Va	olume (0.163)		ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	3 Casing Volumes (0.489)			gals	NEAREST 0.1'	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	Total Vo	olume Purged		gals	32.5
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	Purge Technique Utilize	ed (bailer, pum			203
Last Calibration (time)	0,820	Last Verification (time)		Well Yield	Low 🗆	Medium 🗆	High 🗆	- /
Volume								
Time (mil	itary) 095 /							
p H	I (su)		TD					
Spec Conductivity (m.)	S/cm)		TT					
Water Temperature	(°C) /	' /	1					
Turbidity (1								
Dissolved Oxygen (n								
	Well Condition	n Information			A CONTRACTOR OF THE PARTY OF TH	l Comments		
overall condition accept	table?			no sample de.	to free PV	wot @ 13	90 1	extends
-well cap accept	table?			for 0 50 A	into som	rewater hit	@ 13.40	fr
-manhole and cover accept	table?			•	1	49/	3.0	
-well pad accept	table?							
-area	safe?							
-other com	ments \forall							

TER	KY En	vironmental .	Services	5			Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information			Monitoring V	Vell Informa	tion	
Terry Proje	ect ID	2171.9K			Well ID	0231	5	
SCDHEC Permi	it No.	02314				DTDV N	L MEDE 1	2.004
Project /	Vame Maru	ti Kundal (Former Windso	or Mart)	Te	sting Parameters	BTEX, Nar Oxygenate		
	Date	2/27/2018				Oxygenati	& EDB	
Field Perso	onnel	KH BF			Well Diameter	2	in	
General We	ather	delas		S	Screened Interval	10.3-20.3	ft	TAG BOTTOM OF
Ambient Air Temper	Ambient Air Temperature 55%				pth (nearest 0.1')	20.3	ft	WELL TO VERIFY
	Quality As	ssurance `		Depth to Groundwa	ter (nearest 0.01')	12.20	ft	WELL
Meter	Horiba U-52-2	Meter	Horiba U-52-2	Length o	of Water Column	3.1	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	1 Casing	Volume (0.163)	1.32	ft	BELOW TO
Calibration Constant	4.00 su	Calibration Constant	4.00 su	3 Casing Volumes (0.489)		3.96	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	Tota	l Volume Purged	4.05	gals	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	Purge Technique Ut			,	20.3
Last Calibration (time)	0820	Last Verification (time)	1500/1900	Well Yield	Low	Medium 📈	High 🗆	20.5
Volume		1.5 3.0	4.5					
Time (mil		1933 1937	1939					
ph	1 (su) 4-97	507 5.08	5.09					
Spec Conductivity (m.)		0.072 0.070	0.008					
Water Temperature		21.4 21.3	21.2					
Turbidity (/		47.9 48.1	48.8					
Dissolved Oxygen (n		1.37 1.36	1.34					
	Well Condition	Information			Additiona	l Comments	,	
-overall condition accept	table?							
-well cap accept								
-manhole and cover accept	nable? Missing	of 2 bils						
-well pad accept	table?	1						
-area	safe?							
-other com	ments			/				

TER	CLIE	nvironm NTS FIRST ALWAY	YS —	Services	5				P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	c Information				Monitoring W	ell Informa	tion	
Terry Proje	ect ID	2171	1.9K			Well ID	0231	4- MWI	0
SCDHEC Permi	it No.	023	314				DEED V		
Project /	Vame Ma	ruti Kundal (For	mer Windso	r Mart)		Testing Parameters	The second secon	oh, MTBE, 1	
	Date	12 /26/	/2018				Oxygenat	es, Ethanol,	& EDB
Field Perso	onnel	KH F	BF			Well Diameter	2	in	We also to
General We	ather	der				Screened Interval	16-26	ft	TAG BOTTOM OF
Ambient Air Temper	ature	55°	r		Total Well	Depth (nearest 0.1')	25.07	ft	WELL TO
	Quality .	Assurance	32		Depth to Ground	water (nearest 0.01')	15.24	ft	VERIFY WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2	Lengt	h of Water Column	10.46	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Se.	rial Number	V3KNWUE9	1 Cas	ing Volume (0.163)	1.74	ft	BELOW TO
Calibration Constant	4.00 su	Calibrati	ion Constant	4.00 su	3 Casi	ng Volumes (0.489)	52	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibrati	ion Constant	4.49 mS/cm	Te	otal Volume Purged	5.5	gals	0.1
Calibration Constant	0.0 NTU	Calibrati	ion Constant	0.0 NTU	Purge Technique	Utilized (baile), pump	p)		25.9
Last Calibration (time)	1145	Last Verific	cation (time)		Well Yield	Low 🗆	Medium 📉	High 🗆	-2.1
Volume	(gal) INT	175	2.5	5.5					
Time (mil		1457	1500	1503					
ph	1 (su) 4.65	45	4-45	4.42					
Spec Conductivity (m.)	S/cm) ().088	0.00	0.102	0 0					
Water Temperature	(0) 19.0	154	189	189					
Turbidity (1		491	477	487					
Dissolved Oxygen (n		4.60	4.5	4.34					
	Well Condition	on Informatio	n	(4)		Additiona	l Comments		
-overall condition accept	table? Yes						/_		
-well cap accept	table?								
-manhole and cover accept	table?								
-well pad accept	table?								
-area									
-other com	ments								
			> www.t	erryenvironn	nental.com<				



P.O. Box 25 **RRY** Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9K Well ID 02314 - MWIT SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Project Name Maruti Kundal (Former Windsor Mart) **Testing Parameters** Oxygenates, Ethanol, & EDB 2 /26 /2018 Date BF Field Personnel Well Diameter 2 in TAG General Weather Screened Interval 10.4-20.4 fì воттом ог 20.4 WELL TO Ambient Air Temperature Total Well Depth (nearest 0.1') ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') ft WELL DEPTH, Horiba U-52-2 Meter Meter Horiba U-52-2 Length of Water Column ft WRITE VPTPGA3X Serial Number V3KNWUE9 1 Casing Volume (0.163) ft Serial Number or BELOW TO NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su 3 Casing Volumes (0.489) 3.0 gals 0.1 Calibration Constant 4.49 mS/cm Calibration Constant 4.49 mS/cm Total Volume Purged gals Purge Technique Utilized (Nailes, pump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant Last Calibration (time) Last Verification (time) High 🗆 145 Well Yield Low Medium 3.25 Volume (gal) INT 2.25 Time (military) 1511 1519 59 4.64 pH (su) 0.132 0.31 Spec Conductivity (mS/cm) 0.4 20. Water Temperature (°C) 08 Turbidity (NTU) 98 Dissolved Oxygen (mg/L) .02 Additional Comments Well Condition Information -overall condition acceptable? bowled now -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TER	RYEN	Vironm is first alwa	ental !	Services	5						Summervill	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific .	Information	1			N	Ionitorii	ng W	ell Infor	rmat		
Terry Project	ID	217	1.9K				We	ll ID	02314 - MW\X			
SCDHEC Permit	No.	02	314						DTEV	N	L MEDE 1	2 DC4
Project Na	me Maru	ti Kundal (Fo	rmer Windso	r Mart)		Test	ing Param	eters	AND SHEET THE SECOND		h, MTBE, 1 es, Ethanol, a	
D	ate	2 /26	/2018						Oxyg	enate	s, Emanoi, e	X EDB
Field Person	nel	· FH	BF				Well Dian	neter	2		in	TAG
General Weat	her	de				Sc	reened Int	erval	14.6-24		ft	воттом он
Ambient Air Temperat			5°F				th (nearesi	-	24.5		ft	WELL TO VERIFY
	Quality A	ssurance			Depth to G	roundwate	r (nearest)	0.01')	13.91		ft	WELL
Meter	Horiba U-52-2	1	Meter	Horiba U-52-2		Length of	Water Col	umn	10.59		ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number		V3KNWUE9	1 Casing Volume (0.163)		1.73		ft	BELOW TO		
Calibration Constant	4.00 su	Calibrat	tion Constant	4.00 su	Í	Casing V	olumes (0.	489)	5.18		gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibration Constant		4.49 mS/cm	Total Volume Purged			G	5.5	5.5	gals	
Calibration Constant	0.0 NTU	Calibration Constant		0.0 NTU	Purge Technique Utilized (kailer, pun							24.5
Last Calibration (time)	1145	Last Verifi	ication (time)		Well	Yield	Low		Medium	X	High 🗆	1
Volume (g		15	25	5.5						1		
Time (milita	(ry) 1438	1441	1445	\$1450								
pH (4.59	455	4.58								
Spec Conductivity (mS/c	(m) (-\4	OIA	0-13	0.114								
Water Temperature (199	49	20.0								
Turbidity (N)		488	982	993								
Dissolved Oxygen (mg		4.25	4.16	419								
	Vell Condition	Informatio	on				Addit	iona	l Comme	ents		
-overall condition acceptal	ble? Yes											
-well cap acceptal	ble?				H	7						
-manhole and cover acceptal	ble?											
-well pad acceptal	ble?				SI							
-area sa	ıfe?					/						
-other comme	ents					/						

	ion	ell Informati	onitoring W	M		7	Information	e Specific I	S			
7	1- MW		Well ID			1.9K			Terry Proje			
						314	02		Permit No.	SCDHEC Perm		
		BTEX, Napl	ng Parameters	Testin	r Mart)	Project Name Maruti Kundal (Former Windsor Ma						
& EDB	s, Ethanoi,	Oxygenate	VV.			/2018	12 /26		Date			
TAG	in	2	Well Diameter			BF	KH		l Personne	Field Pers		
BOTTOM OF	fì	23-22.3	reened Interval	Scre			dev		al Weather	General We		
WELL TO VERIFY	ft	22.3		Total Well Depth		F	, 50		emperature	Ambient Air Temper		
WELL	ft		r (nearest 0.01')	epth to Groundwater	ssurance			Quality As				
DEPTII, WRITE	ft		Water Column	Length of V	Horiba U-52-2	Meter		riba U-52-2	1eter H	Meter		
BELOW TO NEAREST	ft	/	olume (0.163)		V3KNWUE9	erial Number	or S	PTPGA3X	mber \	Serial Number		
- 0.1'	gals	_/_	olumes (0.489)		4.00 su	tion Constant	Calibra	4.00 su		Calibration Constant		
	gals		olume Purged	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.49 mS/cm	tion Constant	•	49 mS/cm		Calibration Constant		
22.3	n		- A. Z. C. L. C. C. C. C. C. C. C. C. C. C. C. C. C.	rge Technique Utiliz	0.0 NTU	tion Constant		0.0 NTU		Calibration Constant		
	High 🗆	Medium	Low	Well Yield	1545	ication (time)	Lusi verij	145		Last Calibration (time)		
	=							INT	olume (gal)			
i i				1 45-	-			18/0/	e (military)			
									pH (su)			
					++	>	111	-/-		Spec Conductivity (m.		
								-/-		Water Temperature Turbidity (
										Dissolved Oxygen (i		
Additional Comments						Well Condition Information						
no comple taken de to FP						-overall condition acceptable?						
		1-11	1	11 3 H	i shins	of when or	(op bush	1 well		-well cap accep		
de	Jen al	ZX A -> No	ouct - 9.	ceptute Dra	110)	The replace	1 1 3			manhole and cover accep		
		twood w	etal lenth o	to detect to	M.	10/19		-		-well pad accep		
entre		And Anima	and and w	dupped by					-area safe?			
	1		r contains	23th baller					er comments			

TER	CLIENT	vironn S FIRST ALWA		Services	S					Summervil	P.O. Box 25 le, SC 29484 00-325-0605		
	Site Specific I	Monitoring Well Information											
Terry Proje	ect ID	217	1.9K				Well ID		02314	1-MW2	5		
SCDHEC Permi	it No.	02	2314					DTEV	Non	h, MTBE, 1	2.004		
Project !	Vame Maru	ti Kundal (Fo	ormer Windso	r Mart)		Testing	Parameters	Security account		s, Ethanol,			
	Date	12 /27	/2018					Олуд	chate	s, Ethanoi,	C EDB		
Field Perso	onnel		BF			We	ll Diameter	2		in	TAG		
General We	ather	'dre	rost				ned Interval	12.2-22		ft	воттом оғ		
Ambient Air Temper		(00°F		Total Wei	ll Depth	(nearest 0.1')	22.7		ft	WELL TO VERIFY		
	Quality As	ssurance			Depth to Groun	ndwater (r	nearest 0.01')	10.52	2	ft	WELL		
Meter	Horiba U-52-2		Meter	Horiba U-52-2	Len	igth of Wa	ter Column	11.68		ft	DEPTII, WRITE		
Serial Number	VPTPGA3X	or S	erial Number	V3KNWUE9	1 Casing Volume (0.163)		19	90	ft	BELOW TO			
Calibration Constant	4.00 su	Calibra	tion Constant	4.00 su	3 Casing Volumes (0.489)			5.7	,	gals	NEAREST 0.1'		
Calibration Constant	4.49 mS/cm	Calibra	tion Constant	4.49 mS/cm	Total Volume Purged		6		gals	(1000) (1000)			
Calibration Constant	0.0 NTU			0.0 NTU	Purge Technique Utilized (bailer, pum				,		22.2		
Last Calibration (time)	otro	Last Verification (time)		1500	Well Yield	d 1	.ow 🗆	Medium	X	High 🗆	-7.6		
Volume	(gal) TNT	2	4	6									
Time (mil	itary) 6	1401	1625	1428									
pH	1 (su) 4.53	499	502	5.06									
Spec Conductivity (m.	S/cm) 0.195	0 35	0 36	0 36									
Water Temperature	2 (°C) 2 . 7	2 2	2/2	2									
	NTU) 82 8	474	469	491									
Dissolved Oxygen (n		1.5	1.42	137									
	Well Condition Information						Additional Comments						
-overall condition accept	light	Shan	n'y Mod	evale p	chal	odar							
-well cap accept	table?	,					,						
-manhole and cover accept	table?												
-well pad accept	table?												
-area	safe?												
-other com	ments												

TER	KY Ei	IVIPONN VTS FIRST ALWA	nental .	Services	5				P.O. Box 25 le, SC 29484 00-325-0605		
	Site Specific	Information	n	Monitoring Well Information							
Terry Proje	ect ID	217	71.9K			Well ID	0231	4-MW21			
SCDHEC Perm	it No.	02314					DEEN N	LATER	2.004		
Project /	Vame Mar	uti Kundal (Fo	ormer Windso	r Mart)	Tes	sting Parameters	The second court case and access	oh, MTBE, 1	A CONTRACTOR OF THE PARTY OF TH		
	Date	12 /26	/2018				Oxygenati	es, Ethanol,	& EDB		
Field Perso	onnel	KH	BF			Well Diameter	2	in			
General We	ather	V.	5V		S	creened Interval	13.7-23.7	ft	TAG BOTTOM OF		
Ambient Air Temper	ature	S	<°F		Total Well De	pth (nearest 0.1')	23.8	ft	WELL TO		
	Quality A	Issurance			Depth to Groundwater (nearest 0.01')		12.59	ft	VERIFY WELL		
Meter	Horiba U-52-2		Meter	Horiba U-52-2	Length o	f Water Column	11.21	ft	DEPTH, WRITE		
Serial Number	VPTPGA3X	or S	Serial Number	V3KNWUE9	1 Casing Volume (0.163) 3 Casing Volumes (0.489) Total Volume, Purged		1.83	ft	BELOW TO		
Calibration Constant	4.00 su	Calibra	tion Constant	4.00 su			5.48	gals	NEAREST 0.1'		
Calibration Constant	4.49 mS/cm	Calibra	tion Constant	4.49 mS/cm			6	gals	0.1		
Calibration Constant	0.0 NTU	0 NTU Calibration Constant		0.0 NTU	Purge Technique Uti	lized (bailer, pum			02-		
Last Calibration (time)	1145	Last Verij	fication (time)		Well Yield	LOW	Medium	High 🔀	23.8		
Volume	(gal) INT	2	4	(0					11-		
Time (mil	itary)	13/8	132	1325							
p <i>F</i> .	1 (su) 5.07	470	460	471							
Spec Conductivity (m.	s/cm) 6 075	0.073	0.090	0.070							
Water Temperature		19.0	18.9	189							
Turbidity (1	VTU) 14.0	16.2	2/3	17.5							
Dissolved Oxygen (n	mg/L) \ . 05 Well Conditio	1. 2	30	(17							
	Additional Comments										
-overall condition acceptable? 125											
-well cap acceptable?											
-manhole and cover accep	table?										
-well pad accep	table?										
-area	safe?										
-other com	ments										

	CLIEN	TS FIRST ALW.	AYS —	Services	•			1-8	P.O. Box 1 lle, SC 2948 300-325-066		
S	1	Monitoring W	ell Informa	ition							
Terry Project II	D	21	71.9K			Well ID	023	14 - MWZ	2		
SCDHEC Permit No		02314					DTEV No	ph, MTBE,	1.2 DCA		
Project Nam	e Marı		ormer Windso	or Mart)	Tes	ting Parameters		tes, Ethanol,	Market Market Company		
Dat	e	12/24					Onygena	tes, Ethanor,	W LDD		
Field Personne	el	FH	BF			Well Diameter	2	in	TAG		
General Weathe		d				creened Interval	2-22	ft	воттом		
Ambient Air Temperatur			54			oth (nearest 0.1')	27.0	ft	WELL T VERIFY		
	Quality A.	ssurance			Depth to Groundwater (nearest 0.01')		0.68	ft	WELL		
	loriba U-52-2		Meter	Horiba U-52-2		f Water Column	11.32	ft	DEPTH WRITE		
	VPTPGA3X	1	Serial Number	V3KNWUE9		Volume (0.163)	1:85	ft	BELOW		
Calibration Constant	4.00 su	1	tion Constant	4.00 su		Volumes (0.489)	5.55	gals	NEAREST 0.1'		
	4.49 mS/cm	-		4.49 mS/cm	Total	6	gals				
Calibration Constant 0.0 NTU Last Calibration (time)		Calibration Constant 0.0 NTU Last Verification (time)		Purge Technique Util			12.0				
· ·	1145				Well Yield	Low	Medium 🗆	High	1-		
Volume (gai	-	2	4	(p							
Time (military		4.58	4.52	1243							
pH (su	0.	0.085		0.083							
Spec Conductivity (mS/cm Water Temperature (°C		109	0.085	1219.6							
Turbidity (NTU	4	479	485	493							
Dissolved Oxygen (mg/L		3.57	3.61	3.00							
We We		Additional	Comments								
-overall condition acceptable	/ / / / / / / / / / / / / / / / / / /										
-well cap acceptable											
-manhole and cover acceptable?											
-well pad acceptable					+						
-area safe					/						
-other comment											

P.O. Box 25 RRY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9K Well ID 02314 -MW23 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) Project Name **Testing Parameters** Oxygenates, Ethanol, & EDB /27/2018 Date KHBF Well Diameter Field Personnel in TAG Screened Interval 11.2-21.2 General Weather overcast ft воттом оғ WELL TO Ambient Air Temperature Total Well Depth (nearest 0.1') 21.3 40 F ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 10.45 ft WELL DEPTH, 10.85 Meter Horiba U-52-2 Horiba U-52-2 Length of Water Column ft Meter WRITE VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) 1-77 ft Serial Number Serial Number BELOW TO NEAREST Calibration Constant 4.00 su 3 Casing Volumes (0.489) 5.31 Calibration Constant 4.00 su gals 0.1 4.49 mS/cm Total Volume Purged Calibration Constant Calibration Constant 4.49 mS/cm gals Purge Technique Utilized (bailer, pump) Calibration Constant 0.0 NTU Calibration Constant 0.0 NTU 21:3 Last Calibration (time) Last Verification (time) Well Yield Medium High _ 1500 0820 Volume (gal) TNI 4.0 4.0 Time (military) 1511 1513 1505 1508 5.28 pH (su) 5.63 5.33 5.3 0.078 Spec Conductivity (mS/cm) 0.121 0.075 0.075 Water Temperature (°C) 708 20.7 20.8 20.7 476 497 Turbidity (NTU) 483 495 1.98 Dissolved Oxygen (mg/L) 2.04 Additional Comments Well Condition Information -overall condition acceptable? yen -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments



P.O. Box 25 RRY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information 2171.9K Terry Project ID Well ID 02314 - MW 24 SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) Project Name **Testing Parameters** Oxygenates, Ethanol, & EDB 2 / 26 /2018 Date Field Personnel Well Diameter in TAG General Weather Screened Interval 11-2 ft воттом оғ Total Well Depth (nearest 0.1') WELL TO Ambient Air Temperature 20 ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') ft WELL DEPTH, 12.00 Horiba U-52-2 Length of Water Column Meter Meter Horiba U-52-2 ft WRITE 96 VPTPGA3X Serial Number V3KNWUE9 1 Casing Volume (0.163) ft BELOW TO Serial Number or NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su 3 Casing Volumes (0.489) gals 0.1 Total Volume Purged Calibration Constant 4.49 mS/cm Calibration Constant 4.49 mS/cm gals Purge Technique Utilized (bailer, pump) 0.0 NTU Calibration Constant 0.0 NTU Calibration Constant 20 Last Calibration (time) Last Verification (time) Low | Well Yield Medium High 💢 45 1545 Volume (gal) INT 2 Time (military) 1730 1742 1744 746 pH (su) 000 Spec Conductivity (mS/cm) 0.206 Water Temperature (°C) Turbidity (NTU) 481 Dissolved Oxygen (mg/L) 2.58 **Additional Comments** Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

TER	KKYEn.	vironmental	Services	5					P.O. Box 25 ville, SC 29484 -800-325-0605
	Site Specific .	Information			Mo	nitoring V	Vell Inform	nation	
Terry Proje	ect ID	2171.9K				Well ID	02	2314 - MU	125
SCDHEC Perm	it No.	02314					DTEV	Naph, MTBE	L2 DCA
Project i	Name Maru	iti Kundal (Former Winds	or Mart)		Testing	Parameters	- 8	nates, Ethano	
	Date	12 / 27/2018					ONJEC	nates, Ethano	ι, α ΕΒΒ
Field Pers	onnel	KH BF			и	ell Diameter	2	in	TAG
General We		overcast				ened Interval	11-21	ft	воттом оғ
Ambient Air Temper	200000000000	60.t		Maria Chara Calm		(nearest 0.1')	20.4	ft	WELL TO VERIFY
	Quality A.	The second second second		Depth to Grou			9.75	ft	WELL
Meter	Horiba U-52-2		Horiba U-52-2		A	ater Column	10.65		DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Number				lume (0.163)	1.74	ft	BELOW TO NEAREST
Calibration Constant	4.00 su	Calibration Constant	1 100 CONTRACTOR 1	3 C	0	umes (0.489)	5.21	gals	0,1'
Calibration Constant	4.49 mS/cm	Calibration Constant				lume Purged		gals	
Calibration Constant	0.0 NTU	Calibration Constant	45061640000000000	Purge Techniq			4000	☐ High [1 20.4
Last Calibration (time)	0820	Last Verification (time)	1200	Well Yie	eld	Low	Medium	☐ High [20.9
Volume		1.75 3.5	5.5						
Time (mil		1518 1521	1524						
	4 (su) 4.29	4.71 4.74	4.79						
Spec Conductivity (m.		20.8 20.8	20.7				·		
Water Temperature	NTU) 487	20.8 20.8 109 106	102	-					
Dissolved Oxygen (r		1.38 1.37	1.35						
Disserves onlygen (Well Condition		1.50			Additiona	l Comme	its	
-overall condition accep									
-manhole and cover accep	table?								
•									
-other com									

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		CLIENT	TS FIRST ALWA	YS —	Services	•				Summervil 1-8	00-325-060
	Sit	e Specific 1	Information	n			M	Ionitoring W	ell Informa		
Terry Proje	ct ID		217	1.9K				Well ID	0231	4-MW2	6
SCDHEC Permi	t No.		02	2314					DTEV No.	ph, MTBE, 1	2 DC4
Project N	Vame	Maru	ti Kundal (Fo	rmer Windso	r Mart)		Testi	ing Parameters	1	es, Ethanol,	
	Date	Si.	12/26	/2018					Oxygenat	cs, Ethanol,	& LDD
Field Perso	nnel		KH	BF				Well Diameter	2	in	TAG
General Wes	ather		de				Sci	reened Interval	10.4-20.4	ft	воттом
Ambient Air Temper	uture		50	54			1.71	th (nearest 0.1')	19.8	ft	WELL TO VERIFY
		Quality As	ssurance	•		Depth to Gra	oundwate	r (nearest 0.01')	8-18	ft	WELL
Meter	Hor	iba U-52-2		Meter	Horiba U-52-2	L	ength of	Water Column	6 62	ft	DEPTII, WRITE
Serial Number	VI	TPGA3X	or S	erial Number	V3KNWUE9	1	Casing 1	Volume (0.163)	1.89	ft	BELOW T
Calibration Constant		4.00 su	Calibra	tion Constant	4.00 su	3	Casing V	olumes (0.489)	5.69	gals	NEARES' 0,1'
Calibration Constant	4.	49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	Volume Purged	6	gals	
Calibration Constant).0 NTU		tion Constant	0.0 NTU	- 27		zed (bailer, pum			19.8
Last Calibration (time)	i	145	Last Verif	fication (time)		Well Y	ield	Low 🗆	Medium X	High □	1.1.0
Volume	(gal)	INT	2	4	6						
Time (mili	itary)	1245	1248	1252	1255						
pH	(su)	4.74	4.62	4.58	4.55						
Spec Conductivity (mS		0.057	0.051	0.056	0.056		141				
Water Temperature	-	20.3	19.7	18.8	18.1						
Turbidity (!		231	84.4	81.2	78.4						
Dissolved Oxygen (n			2.95	2.90	2.87			4.1100	10		
	_		Informati	on				Adamona	l Comments		
-overall condition accept											
-well cap accept											
-manhole and cover accept		A L									
-well pad accept	•							/			
-area	safe?						_/				

TER		vironmental	Services	<u>S</u>			Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information		M	onitoring W	Vell Informat		
Terry Proje	ect ID	2171.9K			Well ID	0231	4-MW2-	1
SCDHEC Permi	it No.	02314				DTEV Non	oh, MTBE, 1	2 DCA
Project /	Vame Maru	ıti Kundal (Former Wind	sor Mart)	Testin	ig Parameters		es, Ethanol,	AND CONTRACTOR OF THE PARTY OF
	Date	2 /27 /2018				On y genut	rs, Ethanol,	
Field Perso	onnel	FH BF,)	Well Diameter	2	in	TAG
General We	ather	gencest			eened Interval	10-20	ft	BOTTOM OF
Ambient Air Temper	2000002322	604		Total Well Depth		20.2	ft	WELL TO VERIFY
	Quality A:	ssurance	_	Depth to Groundwater	(nearest 0.01')	7.80	ft	WELL
Meter	Horiba U-52-2	Met	Horiba U-52-2	Length of \$	Vater Column	12.40	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or Serial Numb	v3KNWUE9	1 Casing V	olume (0.163)	2.02	ft	BELOW TO
Calibration Constant	4.00 su	Calibration Consta	4.00 su		lumes (0.489)	6.06	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	ADMILITARY OF THE PROPERTY OF		6.25	gals			
Calibration Constant	0.0 NTU	Calibration Consta	27.1	Purge Technique Utiliz				20.2
Last Calibration (time)	05/20	Last Verification (tim	100	Well Yield	Low 🗆	Medium 🔀	High 🗆	
Volume	(gal) YNT	2 4	6.25					
Time (mil		1550 553	1556					
pH	1 (su) 4.68	4.71 4.66	4.69					
Spec Conductivity (m.	S/cm) 6.033	0.042 6.096						
Water Temperature		20 21	2 2					
Turbidity (?	NTU) 33 \	476 462	488					
Dissolved Oxygen (n		1.73 1.82	174					
	Well Condition	n Information			Additiona	l Comments		
-overall condition accept	table? VCS							
-well cap accept	table?							
-manhole and cover accept	table?							
-well pad accept	table?							
-area	safe?							
-other com	ments							

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P.O. Box 25 RY Environmental Services Summerville, SC 29484 1-800-325-0605 Monitoring Well Information Site Specific Information 2171.9K 02314 -Terry Project ID Well ID 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB 12 /2(0/2018 Date Well Diameter Field Personnel BF in TAG General Weather Screened Interval 49 10-54.6 ft BOTTOM OF WELL TO Total Well Depth (nearest 0.1') Ambient Air Temperature ft VERIFY Depth to Groundwater (nearest 0.01') Quality Assurance ft WELL DEPTH, Horiba U-52-2 Horiba U-52-2 Length of Water Column 39.61 ft Meter Meter WRITE VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) ft Serial Number Serial Number 0.46 BELOW TO NEAREST 3 Casing Volumes (0.489) 19.3 Calibration Constant 4.00 su Calibration Constant 4.00 su gals 0.1' 4.49 mS/cm 4.49 mS/cm Total Volume Purged 20 gals Calibration Constant Calibration Constant Purge Technique Utilized (bailer pump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant 55.4 Last Calibration (time) Last Verification (time) Well Yield Low Medium High 🗆 1145 1545 Volume (gal) INI 20 1552 1608 1(018 630 Time (military) 5.80 5.91 pH (su) 6. 14 5.88 Spec Conductivity (mS/cm) 0.109 0.110 0.108 0.110 Water Temperature (°C) 18.9 18.4 Turbidity (NTU) Dissolved Oxygen (mg/L) 3.29 Additional Comments Well Condition Information vault full of -overall condition acceptable? sediment -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

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TER	R	En	Vironm S FIRST ALWA	iental .	Services	5		5.			P.O. Box 25 le, SC 29484 00-325-0605
	Site S	pecific l	nformation	n			M	onitoring W	Vell Informat	tion	
Terry Proje	ect ID		217	1.9K				Well ID	0231	4-DW2	
SCDHEC Permi	it No.		02	2314					BTEX, Nap	L MTDE 1	2 DC4
Project !	Vame	Maru	ti Kundal (Fo	rmer Windso	r Mart)		Testin	ig Parameters		es, Ethanol,	
	Date		12/26	/2018					Oxygenate	zs, Ethanoi,	C DDD
Field Perso	onnel		'KH	BF				Well Diameter	2	in	TAG
General We	ather			car					44.6-49.6	ft	BOTTOM OF
Ambient Air Temper		-	55	4		Total	Well Depth	(nearest 0.1')	50.3	ft	WELL TO VERIFY
	Qı	uality As	surance	,		Depth to G	roundwater	(nearest 0.01')	13.06	ft	WELL
Meter	Horiba	U-52-2		Meter	Horiba U-52-2		Length of V	Vater Column	37.24	ft	DEPTH, WRITE
Serial Number	VPTP	GA3X	or S	erial Number	V3KNWUE9		1 Casing V	olume (0.163)	6.07	ft	BELOW TO
Calibration Constant	4.00	0 su	Calibra	tion Constant	4.00 su		3 Casing Vo	lumes (0.489)	18.21	gals	NEAREST 0.1'
Calibration Constant	4.49 n	mS/cm Calibration Constant 4.49 mS/cm				olume Purged		gals			
Calibration Constant	1 0.0			tion Constant	0.0 NTU			ed (bailer, pum			50.3
Last Calibration (time)	114	5	Last Verif	fication (time)		Well	Yield	Low 🛎	Medium 🗆	High 🗆	70, 3
Volume	107	INT	6.25								
Time (mill		328	1350	C.	066	NION		(1)			
pH	1 (su) 5	عادياً .	5.54	VV	ILC C	JK VI-					
Spec Conductivity (m.S	S/cm)	015	0.049	,							
Water Temperature	1 /	1.1	19.6								
Turbidity (!		7.7	491								
Dissolved Oxygen (n		.70	4.30								
	Well Co	ondition	Information	on					l Comments		
-overall condition accept	table?	4				TUVER	Dry or	TER CN	CEISING	iolum	
-well cap accept	table? N	cl cap	was not s	sundy p	1 Cacing			7727	S - may		
-manhole and cover accept	table?^	nicking	of 2 bei	3	30	Let ce	Marga	~ 10 A	ning Before	sample	
-well pad accept	table?	U									
-area	safe?										
-other com	ments										

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P.O. Box 25 RRY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information 2171.9K Terry Project ID Well ID 02314 - DW3 SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB 2 /26 /2018 Date Field Personnel Well Diameter in TAG General Weather Screened Interval 44.6-49.6 ft воттом ог Total Well Depth (nearest 0.1') WELL TO Ambient Air Temperature ft VERIFY Depth to Groundwater (nearest 0.01') Quality Assurance ft 02 WELL DEPTH, Horiba U-52-2 Length of Water Column 39 1X ft Meter Meter Horiba U-52-2 WRITE V3KNWUE9 VPTPGA3X Serial Number 1 Casing Volume (0.163) ft Serial Number BELOW TO or NEAREST 3 Casing Volumes (0.489) Calibration Constant 4.00 su Calibration Constant 4.00 su gals 0.1 Total Volume Purged Calibration Constant 4.49 mS/cm **Calibration Constant** 4.49 mS/cm gals Purge Technique Utilized (bailer, nump 0.0 NTU Calibration Constant 0.0 NTU Calibration Constant 50.2 Last Calibration (time) Last Verification (time) Well Yield Low 2 Medium High 🗆 1145 7.0 Volume (gal) 1228 Time (military) 5,98 pH (su) Spec Conductivity (mS/cm) 0.32 0.179 Water Temperature (°C) 497 Turbidity (NTU) 4.92 Dissolved Oxygen (mg/L) 2,7 Additional Comments Well Condition Information SULFUR GOOR -overall condition acceptable? -well cap acceptable? Purge pry after one caring solvine -manhole and cover acceptable? LET EXCHARGE ~ 10 mins BEROLL SAMPLE -well pad acceptable? -area safe? -other comments

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TER	KKY En	Vironn rs first alwa		Services	3				Summervill	P.O. Box 25 e, SC 29484 00-325-0605
	Site Specific	Informatio	n			M	onitoring W	'ell Informat		
Terry Proje	ect ID	217	71.9K		•		Well ID	0231	4-RW1	
SCDHEC Permi	it No.	02	2314					DTEV No.	L MTDE I	2 DC4
Project !	Vame Maru	ti Kundal (Fo	ormer Windso	r Mart)		Testii	ng Parameters		h, MTBE, 1 es, Ethanol, a	
	Date	12 129	/2018					Oxygenate	s, Emanoi, e	X LDB
Field Perso	onnel	KHF	3F				Well Diameter	4	in	TAG
General We	ather		rcast			Ser	eened Interval	10-30	ft	воттом ог
Ambient Air Temper	STATE AND CONTRACT.	60	· F		Total)	Well Depti	(nearest 0.1')	29.9	ft	WELL TO VERIFY
	Quality As	ssurance			Depth to Gro	oundwater	(nearest 0.01')	12.24	ft	WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2	L	ength of	Vater Column	17.60	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or S	Serial Number	V3KNWUE9	1	Casing V	olume (0.163)	11.53	ft	BELOW TO
Calibration Constant	4.00 su	Calibra	tion Constant	4.00 su	3	Casing Vo	lumes (0.489)	34.59	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	olume Purged	30	gals	
Calibration Constant	0.0 NTU		tion Constant	0.0 NTU			ed (bailer, pum	2		29,9
Last Calibration (time)	0735	Last Verij	fication (time)		Well Y	ield (Low 🗆	Medium 🗆	High 📈	21,1
Volume	.0	12	24	36						
Time (mil.	itary) 0937	0940	0943	0946						
■ (2012)	1 (su) 4.71	5.12	5.18	5.13						
Spec Conductivity (m.	s/cm) 0.120	0.158	0.160	0.160						
Water Temperature		22.5	22.4	22.4						
Turbidity (?		1.3	6.9	3.2						
Dissolved Oxygen (n		1.97	2.11	2.02						
	Well Condition	Informati	on					l Comments		
-overall condition accept	table? Yex				Mvog-1	righ	petrol o	day		
-well cap accept	table?	4					1			
-manhole and cover accept	table?									
-well pad accept	table?									
-area	safe?									
-other com	ments	V								

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TER	CLIENT	Vironn Is first alwa		Services	<u> </u>				Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Specific	Information	n			М	onitoring V	Vell Informa	ion	
Terry Proje	ect ID	217	71.9K				Well ID	0231	4- EWZ	-11
SCDHEC Perm	it No.	02	2314							
Project 1	Vame Maru	ti Kundal (Fo	ormer Windso	r Mart)		Testin	ig Parameters	8 3	oh, MTBE, 1 es, Ethanol,	27
	Date	12 /28	/2018				even	Oxygenati	,s, Ethanoi,	& LDB
Field Perso	onnel	KH	BF				Well Diameter	4	in	TAG
General We	ather	over	cast			Scr	eened Interval	10-30	ft	BOTTOM OF
Ambient Air Temper	ature	uo.	F		Total	Well Deptl	(nearest 0.1')	30.1	ft	WELL TO VERIFY
	Quality A:	ssurance			Depth to Gr	oundwater	(nearest 0.01')	11.75	ft	WELL
Meter	Horiba U-52-2		Meter	Horiba U-52-2	3	Length of)	Water Column	18-385	ft	DEPTH, WRITE
Serial Number	VPTPGA3X	or S	Serial Number	V3KNWUE9		1 Casing V	olume (0.163)	11.98	ft	BELOW TO
Calibration Constant	4.00 su	Calibra	tion Constant	4.00 su	3	Casing Vo	lumes (0.489)	35.95	gals	NEAREST 0.1'
Calibration Constant	4.49 mS/cm	Calibra	tion Constant	4.49 mS/cm		Total V	olume Purged	34.0	gals	
Calibration Constant	0.0 NTU		tion Constant	0.0 NTU	Purge Techn	iique Utiliz	ed (bailer, pum			701
Last Calibration (time)	0735	Last Verij	fication (time)		Well	Yield	Low	Medium 🗆	High 🖊	30.1
Volume	(gal) \ NT	12	24	36						
	itary) 1003	1007	(61)	1015						
	1 (su) 5.59	5.51	5.53	5.55						
Spec Conductivity (m.		0.687	0.690	0.690						
Water Temperature	(°C) 21.3	21.2	21.2	21,2						
Turbidity (1		0.3	1.2	0.0						
Dissolved Oxygen (n		2.18	223	227						
	Well Condition		on				Additiona	l Comments		
-overall condition accept	table?	V								
-well cap accep	table?				Strov	10) petr	ol odar			
-manhole and cover accep	table?									
-well pad accep	table?									
-area	safe?									
-other com	ments									

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EKRY Environmental Services P.O. Box 25 Summerville, SC 29484 1-800-325-0605 Monitoring Well Information Site Specific Information 2171.9K Well ID 02314 -RW3 Terry Project ID SCDHEC Permit No. 02314 BTEX, Naph, MTBE, 1,2-DCA, Maruti Kundal (Former Windsor Mart) **Testing Parameters** Project Name Oxygenates, Ethanol, & EDB 12 /27/2018 Well Diameter Field Personnel BF in TAG Screened Interval 10-30 ft General Weather overcast воттом ог Total Well Depth (nearest 0.1') WELL TO ft Ambient Air Temperature 30.0 VERIFY Depth to Groundwater (nearest 0.01') 11.78 Quality Assurance ft WELL DEPTH. 18.22 Horiba U-52-2 Length of Water Column ft Meter Horiba U-52-2 Meter WRITE 11.90 Serial Number VPTPGA3X Serial Number V3KNWUE9 1 Casing Volume (0.163) ft BELOW TO or NEAREST 36.49 4.00 su 4.00 su 3 Casing Volumes (0.489) gals **Calibration Constant** Calibration Constant 36.0 Total Volume Purged 4.49 mS/cm **Calibration Constant** 4.49 mS/cm gals Calibration Constant Purge Technique Utilized (bailer, gump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant 30.0 Last Calibration (time) Last Verification (time) Medium High Well Yield Low 0820 1500/1900 Volume (gal) Time (military) 2005 2008 2012 2015 5.28 5.19 5.15 5,18 pH (su) 0.054 0.054 0.055 Spec Conductivity (mS/cm) 0.054 20.8 0 20.6 20.5 Water Temperature (°C) 3 17.4 Turbidity (NTU) 10.8 18.0 Dissolved Oxygen (mg/L) 1.88 2.00 2.02 Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

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EKRY Environmental Services P.O. Box 25 Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information Terry Project ID 2171.9K Well ID 02314 - PW4 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Project Name Maruti Kundal (Former Windsor Mart) **Testing Parameters** Oxygenates, Ethanol, & EDB 2 / 27 /2018 Field Personnel Well Diameter TAG General Weather drica Screened Interval 0-30 ft оттом он Ambient Air Temperature Total Well Depth (nearest 0.1') 30,9 WELL TO ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') 10.50 ft WELL DEPTH. Horiba U-52-2 Horiba U-52-2 Length of Water Column ft Meter Meter WRITE VPTPGA3X V3KNWUE9 (o[.] 653) 1 Casing Volume (0.163) Serial Number Serial Number ft or BELOW TO NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su (\. 959)3 Casing Volumes (4.489) gals 0.1 Calibration Constant 4.49 mS/cm Calibration Constant 4.49 mS/cm Total Volume Purged gals Purge Technique Utilized (bailer, pump Calibration Constant 0.0 NTU Calibration Constant 0.0 NTU 30.9 Last Calibration (time) 05/20 Last Verification (time) 500 Well Yield Low Medium High 7 40 Volume (gal) Time (military) 747 759 45 pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) 20.2 Turbidity (NTU) 23 3 50. 432 Dissolved Oxygen (mg/L) Well Condition Information Additional Comments -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

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initial sample

Groundwater Sampling Log

P.O. Box 25 RRY Environmental Services Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information 2171.9K Terry Project ID Well ID 02314 - PWS 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Project Name Maruti Kundal (Former Windsor Mart) **Testing Parameters** Oxygenates, Ethanol, & EDB Date 2 /27 /2018 Field Personnel K+ Well Diameter in TAG General Weather Screened Interval 10.30 ft BOTTOM OF Total Well Depth (nearest 0.1') WELL TO Ambient Air Temperature 30.6 ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') ft 0.70 WELL DEPTH, Meter Horiba U-52-2 Meter Horiba U-52-2 Length of Water Column 19:90 ft WRITE VPTPGA3X V3KNWUE9 (0.453) 1 Casing Volume (4.163) 12.99 ft Serial Number Serial Number or BELOW TO NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su (1.959) 3 Casing Volumes (#489) 389 gals 0.1' 4.49 mS/cm 4.49 mS/cm Total Volume Purged 40 gals Calibration Constant Calibration Constant Purge Technique Utilized (bailer, pump) Calibration Constant 0.0 NTU Calibration Constant 0.0 NTU Last Calibration (time) 0820 Last Verification (time) Well Yield Low Medium High 500 Volume (gal) INT 40 700 Time (military) pH (su) 4:37 0.25 Spec Conductivity (mS/cm) 19.9 Water Temperature (°C) 490 Turbidity (NTU) 098 Dissolved Oxygen (mg/L) Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

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Water Supply Well Sampling Log

TER	c	YEnvironmental Service Specific Information			5				Summervil	P.O. Box 25 le, SC 29484 00-325-0605
	Site Spec	ific Info	rmation			M	lonitoring V	Vell Informat	tion	
Terry Proje	ect ID		2171.9K				Well ID	0231	4-WSW	
SCDHEC Permi	it No.		02314					BTEX, Naph,	MTBE, 1,2-	DCA (EPA
Project 1	Name	Maruti Kı	ındal (Former Windso	r Mart)	1	Testi	ing Parameters	524.2)	; Oxygenate	s &
	Date	1	2 /28/2018					Ethanol (826	50B); & ED!	B (504.1)
Field Perso	onnel		EH BF				Well Diameter		/ in	m.c
General We	ather		devent			Sci	reened Interval	/	ft	TAG BOTTOM OF
Ambient Air Temper	ature		60°F		Total	Well Dept	h (nearest 0.1')		ft	WELL TO VERIFY
	Quali	ty Assur	ance		Depth to G	roundwater	r (nearest 0.01')		ft	WELL
Meter	Horiba U-5	2-2	Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE
Serial Number	VPTPGA3	X or	Serial Number	V3KNWUE9		1 Casing V	/olume (0.163)		ft	BELOW TO
Calibration Constant	4.00 su		Calibration Constant	4.00 su		3 Casing V	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	4.49 mS/c	m	Calibration Constant 4.49 mS/cm			Total V	olume Purged		gals	81.5
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	Purge Techi	nique Utiliz	zed (bailer, pum	p) .		
Last Calibration (time)	0735	,	Last Verification (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	
Volume	(gal) INT									
Time (mili	itary) 075	X								
pH	1 (su) 5.92									
Spec Conductivity (m.S		-								
Water Temperature	(°C) 15.9	1								
Turbidity (?										
Dissolved Oxygen (n										
	Well Cond	ition Inf	formation				Additiona	l Comments		
-overall condition accept	table? 405				dup	icate (D 0280			
-well cap accept	table?				- A. V.				70	
-manhole and cover accept	table?				let v	un fer a	5 mintes	hefore con	plas	
-well pad accept	table?				V	ı		, ,	. 0	
-area	safe?									
-other com	ments \forall									

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TER	R		vironn S FIRST ALW		Services	5					P.O. Box 25 le, SC 29484 00-325-0605
	Site	Specific I	Informatio	77			M	Ionitoring W	ell Informat	tion	
Terry Proje	ect ID		21	71.9K				Well ID	0231	4-5W	1
SCDHEC Permi	it No.		0	2314							2.004
Project /	Vame	Maru	ti Kundal (F	ormer Windso	or Mart)	1	Testi	ing Parameters	BTEX, Nap	es, Ethanol,	
5	Date		12 /2	7/2018					Oxygenate	es, Ethanoi,	& EDB
Field Perso	onnel		KH					Well Diameter		in	TAG
General We	ather		clea				Sci	reened Interval		ft	BOTTOM OF
Ambient Air Temper	ature		40	· 6		Total	Well Dept	th (nearest 0.1')		ft	WELL TO VERIFY
		Quality As	ssurance			Depth to G	roundwate	r (nearest 0.01')		fì	WELL
Meter	Hori	ba U-52-2		Meter	Horiba U-52-2		Length of	Water Column		ft	DEPTH, WRITE
Serial Number	VP	TPGA3X	or .	Serial Number	V3KNWUE9		1 Casing 1	Volume (0.163)		ft	BELOW TO
Calibration Constant	4	1.00 su	Calibr	ation Constant	4.00 su	j	Casing V	olumes (0.489)		gals	NEAREST 0.1'
Calibration Constant	4.4	9 mS/cm				Total V	Volume Purged		gals		
Calibration Constant	0.	.0 NTU	Calibration Constant 0.0 NTU		Purge Techi	nique Utili.	zed (bailer, pum				
Last Calibration (time)	09	520	Last Ver	ification (time)		Well	Yield	Low 🗆	Medium 🗆	High 🗆	
Volume	(gal)	INT									
Time (mil	itary)	0835									
pH	l (su)	461									
Spec Conductivity (m.	S/cm)	0.139						i i			
Water Temperature	(°C)	6-7									
Turbidity (?		0.3									
Dissolved Oxygen (n											
	Well	Condition	Informat	ion				Additiona	l Comments		
-overall condition accept	table? _							,			
-well cap accept	table?										
-manhole and cover accept	table? _										
-well pad accept	table? _						_/				
-area	safe? _		1								
-other com	ments		1			/					

PH

Groundwater Sampling Log

P.O. Box 25 **Environmental Services** Summerville, SC 29484 1-800-325-0605 Site Specific Information Monitoring Well Information 02314 - SW2 2171.9K Well ID Terry Project ID 02314 SCDHEC Permit No. BTEX, Naph, MTBE, 1,2-DCA, Project Name Maruti Kundal (Former Windsor Mart) **Testing Parameters** Oxygenates, Ethanol, & EDB 2 / 27 /2018 Date Field Personnel Well Diameter in TAG General Weather dear Screened Interval BOTTOM OF WELL TO Total Well Depth (nearest 0.1') Ambient Air Temperature ft VERIFY Quality Assurance Depth to Groundwater (nearest 0.01') ft WELL DEPTH, Meter Horiba U-52-2 Meter Horiba U-52-2 Length of Water Column ſt WRITE VPTPGA3X V3KNWUE9 1 Casing Volume (0.163) ft Serial Number BELOW TO Serial Number NEAREST Calibration Constant 4.00 su Calibration Constant 4.00 su 3 Casing Volumes (0.489) gals 0.1' Total Volume Purged gals 4.49 mS/cm Calibration Constant 4.49 mS/cm Calibration Constant Purge Technique Utilized (bailer, pump) 0.0 NTU 0.0 NTU Calibration Constant Calibration Constant Last Verification (time) Medium High \square Last Calibration (time) 0420 Well Yield Low Volume (gal) INT 0900 Time (military) pH (su) Spec Conductivity (mS/cm) Water Temperature (°C) Turbidity (NTU) Dissolved Oxygen (mg/L) Additional Comments Well Condition Information -overall condition acceptable? -well cap acceptable? -manhole and cover acceptable? -well pad acceptable? -area safe? -other comments

---> www.terryenvironmental.com <----



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 12 26-18	Inspector: KH BF
Solution Manufacturer:	plufax Number: 17/2179	Expiration Date: 12-30-19
Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.00	± °
Conductivity: 4.49 mS/cm	4.50 mS/cm	± O· o mS/cm
Turbidity: 0.0 NTU	o· c NTU	± Ø NTU
Standard Reading	Instrument Reading	ng <u>Accuracy</u>
NIST-Traceable Thermometer: 16 4 °C	16. 0C	± 6.3 ℃
2	APP Acceptance Criteria	
Field Parameter	Acc	uracy
Temperature	±1°C again	ast an NIST-traceable thermometer
Specific Conductance	10% of each	h standard used
рН	±0.2 pH un	its of stated buffer value
Turbidity	10% of each	h standard used

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Serial Number	: <u>VWKAUMKJ</u>	Date/Time: 12-26-18	Inspector	KH B	÷ŧ
Solution Man	ufactures.	intions Lot Number: 172179	Expiration Date	: 12.30.10	1_
Solution V	alue	Instrument Reading		Accurac	<u>:y</u>
pH: 4.00		3.99		± 6.0	5
Conductivi	ty: 4.49 mS/cm	4 49 mS/cm		± O	mS/cm
Turbidity:	0.0 NTU	O· O NTU		± G	NTU
	Standard Reading	Instrument Reading	ng	Accura	<u>cy</u>
NIST-Traceable Thermometer:	17.2 °C	_\7.1 °C		± G-	°C
	2	APP Acceptance Criteria			
Field Para	imeter	Acc	curacy		
Temperatu	re	±1°C agair	ist an NIST-traced	able thern	nometer
Specific Co	onductance	10% of eac	h standard used		
pН		$\pm 0.2~pH$ un	its of stated buffe	r value	
Turbidity		10% of eac	h standard used		
	Inc	nactoria Maintenance Nate	-		

Mawfi	Kundal	(Fmy Wer	dC~ M-1	1 27	1.9K
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pH

Turbidity

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Numbe	r; <u>VWKAUMKJ</u>	Date/Time: 12-26-18	Inspector: <u></u>	片 時
Solution Man	nufactures costern s	Elutions Lot Number: 17/2879	Expiration Date: 12	30:19
Solution 1	Value	Instrument Reading	Acc	curacy
pH: 4.00	j	4.07	主	0.07
Conductiv	vity: 4.49 mS/cm	4-48 mS/cm	± 6	o o mS/cm
Turbidity:	0.0 NTU	O· O NTU	±	o NTU
	Standard Reading	Instrument Readi	ing Ac	curacy
NIST-Traceable Thermometer:	12.8°C	°C	± (3-\ °C
	9	OAPP Acceptance Criteria		=
Field Par	ameter	<u>Ac</u>	curacy	
Temperati	ure	±1°C agai	nst an NIST-traceable	thermometer
Specific C	onductance	10% of eac	ch standard used	

Inspector's Maintenance Notes

±0.2 pH units of stated buffer value

10% of each standard used

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inder M	5		200



HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 12-27-18	Inspector: KH BF			
Solution Manufacturer:	Solution Number: 17/2379 Exp	Diration Date: 12-30-19			
Solution Value	Instrument Reading	Accuracy			
pH: 4.00	3.95	± 0.05			
Conductivity: 4.49 mS/cm	4.53 mS/cm	± 0. A mS/cm			
Turbidity: 0.0 NTU	O O NTU	± O NTU			
Standard Reading	Instrument Reading	Accuracy			
NIST-Traceable Thermometer: 5 % °C	<u>5.9</u> °C	± Ø.			
2	APP Acceptance Criteria				
Field Parameter	Accurac	<u>y</u>			
Temperature	$\pm 1^{\circ}C$ against an NIST-traceable thermometer				
Specific Conductance	10% of each sta	10% of each standard used			
рН	± 0.2 pH units of	f stated buffer value			
Turbidity	10% of each sta	ndard used			
Inc	mastar's Maintenance Notes				

Inspector's Maintenance Note	es
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Mant	Kundal	(Fray lalind a N	12/7/ 2/7/ c	ak
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		Sar III	\$ 17	



Serial Number: <u>VWKAUMKJ</u>	Date/Time; 12-27.18 In	spector: FH BF	
Solution Manufacturer.	slutions 1712/79	12.7.10	
	Lot Number: 17279 Expire	ation Date: 12 30 19	
Solution Value	Instrument Reading	Accuracy	
pH: 4.00	4.07	± 6.02	
Conductivity: 4.49 mS/cm	4.49 mS/cm	± omS/cm	
Turbidity: 0.0 NTU	NTU	± O NTU	
Standard Reading	Instrument Reading	Accuracy	
NIST-Traceable Thermometer: 2\8 °C	2/.7 °C	± 0 ·	
2	APP Acceptance Criteria		
Field Parameter	Accuracy		
Temperature	$\pm 1^{\circ}C$ against an NIST-traceable thermometer		
Specific Conductance	10% of each stand	ard used	
pH	±0.2 pH units of st	ated buffer value	
Turbidity	10% of each stand	ard used	

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Serial Number: <u>VWKAUMKJ</u>	Date/Time: 12-27-18 Insp	ector; kh BF			
Solution Manufacturer:	Expiration Lot Number: 17/2/79 Expiration	n Date: 2 30 19			
Solution Value	Instrument Reading	Accuracy			
pH: 4.00	4.04	± 0.04			
Conductivity: 4.49 mS/cm	4-49 mS/cm	± O mS/cm			
Turbidity: 0.0 NTU		± 🐧 NTU			
Standard Reading	Instrument Reading	Accuracy			
NIST-Traceable Thermometer: 182°C	18.4_℃	± 5.7 °C			
9	QAPP Acceptance Criteria				
Field Parameter	Accuracy				
Temperature	±1°C against an NIST	±1°C against an NIST-traceable thermometer			
Specific Conductance	10% of each standard	l used			
pH	± 0.2 pH units of state	d buffer value			
Turbidity	10% of each standard	l used			

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Serial Number: <u>VWKAUMKJ</u>	Date/Time; 12-27-18 In:	spector: KH BF			
Solution Manufacturer	Cutions Lot Number: 17/2/79 Expira	tion Date: 12-30-19			
Solution Value	Instrument Reading	Accuracy			
pH: 4.00	4.00	± 0			
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0-0 mS/cm			
Turbidity: 0.0 NTU	NTU	± o NTU			
Standard Reading	Instrument Reading	Accuracy			
NIST-Traceable Thermometer: 4.8°C	<u></u>	±0. 0℃			
9	OAPP Acceptance Criteria				
Field Parameter	Accuracy				
Temperature	$\pm 1^{\circ}$ C against an NIST-traceable thermometer				
Specific Conductance	10% of each standa	10% of each standard used			
pН	± 0.2 pH units of sta	ated buffer value			
Turbidity	10% of each standa	ard used			

Mawt	1 Kudal	(tmv	Muder	M~1)	2/71.9K
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Specific Conductance

pH

Turbidity

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time: 12-26-18	Inspector: KH B
Solution Manufacturer:	Solution Number: 17/2379 Exp	iration Date: 12-30-19
Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.00	± O
Conductivity: 4.49 mS/cm	4.49 mS/cm	± O mS/cm
Turbidity: 0.0 NTU	NTU	± 6.7 NTU
Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer: _\(\begin{array}{c c} \sigma \cdot \sigma \cdot \cdot \sigma \cdot	16.7°C	± 0.\ °C
	QAPP Acceptance Criteria	
Field Parameter	Accuracy	<u>E</u> ₂
Temperature	±1°C against an	NIST-traceable thermometer

Inspector's Maintenance Notes

10% of each standard used

10% of each standard used

 ± 0.2 pH units of stated buffer value

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Specific Conductance

pH

Turbidity

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: <u>VWKAUMKJ</u>	Date/Time; 12-28-18	Inspector: KH BF
	1040	

Solution Ma	nufacturer custern Solut	Lot Number: 17/2679	Expiration Date: 12-30-19
Solution	Value	Instrument Reading	Accuracy
pH: 4.00)	4.03	± 6.03
Conducti	vity: 4.49 mS/cm	4:50 mS/cm	± o· o mS/cm
Turbidity	: 0.0 NTU	O· O NTU	± Ø NTU
	Standard Reading	Instrument Read	ing Accuracy
NIST-Traceable Thermometer:	189°C	18.7 °C	± Ø.Z °C
	QA	PP Acceptance Criteria	
Field Par	rameter	. <u>Ac</u>	есигасу
Temperat	hana.	. 120	inst an NIST-traceable thermometer

Inspector's Maintenance Notes

10% of each standard used

10% of each standard used

 $\pm 0.2~pH$ units of stated buffer value

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Report of Analysis

Terry Environmental Services, Inc.

222 Varnfield Drive Suite F Summerville, SC 29483 Attention: Kelly Cone

Project Name: Maruti Kundal (F. Windsor Mart)

Project Number: 2171.9K Lot Number: **TL28015**

Date Completed:01/06/2019

01/07/2019 3:56 PM Approved and released by:

KellyM Name

Project Manager: Kelly M. Nance





The electronic signature above is the equivalent of a handwritten signature.

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SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Terry Environmental Services, Inc. Lot Number: TL28015

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Volatiles

The matrix spike duplicate (MSD) associated with sample -034 had ethanol recovered outside of the acceptance limits. Additionally, the RPD exceeded the acceptance limit. The laboratory control sample (LCS) was recovered within the required acceptance limits; therefore, this likely demonstrates a matrix effect.

Sample Summary Terry Environmental Services, Inc.

Lot Number: TL28015

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	02314 MW2R	Aqueous	12/28/2018 1031	12/28/2018
002	02314 MW3	Aqueous	12/27/2018 1852	12/28/2018
003	02314 MW5	Aqueous	12/28/2018 0849	12/28/2018
004	02314 MW6	Aqueous	12/27/2018 1927	12/28/2018
005	02314 MW7	Aqueous	12/27/2018 2035	12/28/2018
006	02314 MW8	Aqueous	12/27/2018 2051	12/28/2018
007	02314 MW9	Aqueous	12/26/2018 1534	12/28/2018
800	02314 MW10	Aqueous	12/26/2018 1654	12/28/2018
009	02314 MW11	Aqueous	12/26/2018 1707	12/28/2018
010	02314 MW12	Aqueous	12/27/2018 1837	12/28/2018
011	02314 MW13	Aqueous	12/27/2018 1730	12/28/2018
012	02314 MW15	Aqueous	12/27/2018 1939	12/28/2018
013	02314 MW16	Aqueous	12/26/2018 1503	12/28/2018
014	02314 MW17	Aqueous	12/26/2018 1519	12/28/2018
015	02314 MW18	Aqueous	12/26/2018 1450	12/28/2018
016	02314 MW20	Aqueous	12/27/2018 1628	12/28/2018
017	02314 MW21	Aqueous	12/26/2018 1325	12/28/2018
018	02314 MW22	Aqueous	12/26/2018 1243	12/28/2018
019	02314 MW23	Aqueous	12/27/2018 1513	12/28/2018
020	02314 MW24	Aqueous	12/26/2018 1746	12/28/2018
021	02314 MW25	Aqueous	12/27/2018 1524	12/28/2018
022	02314 MW26	Aqueous	12/26/2018 1255	12/28/2018
023	02314 MW27	Aqueous	12/27/2018 1556	12/28/2018
024	02314 DW1	Aqueous	12/26/2018 1630	12/28/2018
025	02314 DW2	Aqueous	12/26/2018 1356	12/28/2018
026	02314 DW3	Aqueous	12/26/2018 1228	12/28/2018
027	02314 RW1	Aqueous	12/28/2018 0946	12/28/2018
028	02314 RW2	Aqueous	12/28/2018 1015	12/28/2018
029	02314 RW3	Aqueous	12/27/2018 1815	12/28/2018
030	02314 RW4	Aqueous	12/27/2018 1759	12/28/2018
031	02314 RW5	Aqueous	12/27/2018 1700	12/28/2018
032	02314 SW1	Aqueous	12/27/2018 0835	12/28/2018
033	02314 MW24 dup	Aqueous	12/26/2018 1748	12/28/2018
034	02314 RW4 dup	Aqueous	12/27/2018 1801	12/28/2018
035	02314 FB1	Aqueous	12/26/2018 1200	12/28/2018
036	02314 FB2	Aqueous	12/27/2018 0825	12/28/2018
037	02314 FB3	Aqueous	12/28/2018 0740	12/28/2018
038	02314 TB	Aqueous	12/26/2018	12/28/2018

(38 samples)

Detection Summary Terry Environmental Services, Inc.

Lot Number: TL28015

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	02314 MW2R	Aqueous	tert-Amyl alcohol (TAA)	8260B	8100		ug/L	8
001	02314 MW2R	Aqueous	Benzene	8260B	2600		ug/L	8
001	02314 MW2R	Aqueous	Ethylbenzene	8260B	2500		ug/L	8
001	02314 MW2R	Aqueous	Naphthalene	8260B	670		ug/L	8
001	02314 MW2R	Aqueous	Toluene	8260B	15000		ug/L	8
001	02314 MW2R	Aqueous	Xylenes (total)	8260B	13000		ug/L	8
002	02314 MW3	•	tert-Amyl alcohol (TAA)	8260B	870		ug/L	9
002	02314 MW3	Aqueous	Benzene	8260B	95		ug/L	9
002	02314 MW3	Aqueous	Ethylbenzene	8260B	110		ug/L	9
002	02314 MW3	Aqueous	Naphthalene	8260B	52		ug/L	9
002	02314 MW3	Aqueous	Toluene	8260B	61		ug/L	9
002	02314 MW3		Xylenes (total)	8260B	590		ug/L	9
005	02314 MW7	Aqueous	tert-Amyl alcohol (TAA)	8260B	17000		ug/L	12
005	02314 MW7		Benzene	8260B	3600		ug/L	12
005	02314 MW7	Aqueous	Diisopropyl ether (IPE)	8260B	170		ug/L	12
005	02314 MW7	•	Ethylbenzene	8260B	2000		ug/L	12
005	02314 MW7	Aqueous	Naphthalene	8260B	840		ug/L	12
005	02314 MW7	Aqueous	Toluene	8260B	17000		ug/L	12
005	02314 MW7	Aqueous	Xylenes (total)	8260B	12000		ug/L	12
005	02314 MW7		1,2-Dibromoethane (EDB)	8011	0.53		ug/L	12
006	02314 MW8		tert-Amyl alcohol (TAA)	8260B	6000		ug/L	13
006	02314 MW8	•	Benzene	8260B	900		ug/L	13
006	02314 MW8		Diisopropyl ether (IPE)	8260B	17	J	ug/L	13
006	02314 MW8	•	Ethylbenzene	8260B	390		ug/L	13
006	02314 MW8	Aqueous	Naphthalene	8260B	42		ug/L	13
006	02314 MW8	Aqueous	Toluene	8260B	1900		ug/L	13
006	02314 MW8	Aqueous	Xylenes (total)	8260B	5000		ug/L	13
010	02314 MW12	Aqueous	tert-Amyl alcohol (TAA)	8260B	2400		ug/L	17
010	02314 MW12	Aqueous	Benzene	8260B	190		ug/L	17
010	02314 MW12	Aqueous	Ethylbenzene	8260B	99		ug/L	17
010	02314 MW12	Aqueous	Naphthalene	8260B	21		ug/L	17
010	02314 MW12	Aqueous	tert-butyl alcohol (TBA)	8260B	77	J	ug/L	17
010	02314 MW12	Aqueous		8260B	530		ug/L	17
010	02314 MW12		Xylenes (total)	8260B	460		ug/L	17
011	02314 MW13	Aqueous	tert-Amyl alcohol (TAA)	8260B	5500		ug/L	18
011	02314 MW13	Aqueous	Benzene	8260B	1800		ug/L	18
011	02314 MW13	Aqueous	Ethylbenzene	8260B	1800		ug/L	18
011	02314 MW13	Aqueous	Naphthalene	8260B	340		ug/L	18
011	02314 MW13	Aqueous	Toluene	8260B	4700		ug/L	18
011	02314 MW13	-	Xylenes (total)	8260B	6000		ug/L	18
012	02314 MW15	Aqueous	tert-Amyl alcohol (TAA)	8260B	31000		ug/L	19
012	02314 MW15	•	Benzene	8260B	5100		ug/L	19
012	02314 MW15		Ethylbenzene	8260B	1900		ug/L	19
012	02314 MW15		Naphthalene	8260B	480		ug/L	19
012	02314 MW15	Aqueous	·	8260B	26000		ug/L	19
		•					-	

Detection Summary (Continued)

Lot Number: TL28015

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
012	02314 MW15	Aqueous	Xylenes (total)	8260B	13000		ug/L	19
016	02314 MW20	Aqueous	tert-Amyl alcohol (TAA)	8260B	9900		ug/L	23
016	02314 MW20	Aqueous	Benzene	8260B	3300		ug/L	23
016	02314 MW20	Aqueous	Ethylbenzene	8260B	840		ug/L	23
016	02314 MW20	Aqueous	Naphthalene	8260B	220		ug/L	23
016	02314 MW20	Aqueous	Toluene	8260B	6600		ug/L	23
016	02314 MW20	Aqueous	Xylenes (total)	8260B	4300		ug/L	23
017	02314 MW21	Aqueous	tert-Amyl alcohol (TAA)	8260B	40		ug/L	24
019	02314 MW23	Aqueous	tert-Amyl alcohol (TAA)	8260B	6700		ug/L	26
019	02314 MW23	Aqueous	Benzene	8260B	1800		ug/L	26
019	02314 MW23	Aqueous	Ethylbenzene	8260B	660		ug/L	26
019	02314 MW23	Aqueous	Naphthalene	8260B	120		ug/L	26
019	02314 MW23	Aqueous	Toluene	8260B	5900		ug/L	26
019	02314 MW23	Aqueous	Xylenes (total)	8260B	3900		ug/L	26
020	02314 MW24	Aqueous	tert-Amyl alcohol (TAA)	8260B	3700		ug/L	27
020	02314 MW24	Aqueous	Benzene	8260B	2200		ug/L	27
020	02314 MW24	Aqueous	Ethylbenzene	8260B	780		ug/L	27
020	02314 MW24	Aqueous	Naphthalene	8260B	87	J	ug/L	27
020	02314 MW24	Aqueous	Toluene	8260B	9400		ug/L	27
020	02314 MW24	Aqueous	Xylenes (total)	8260B	3900		ug/L	27
021	02314 MW25		tert-Amyl alcohol (TAA)	8260B	4500		ug/L	28
021	02314 MW25		Benzene	8260B	1200		ug/L	28
021	02314 MW25	Aqueous	Diisopropyl ether (IPE)	8260B	16		ug/L	28
021	02314 MW25	•	Ethylbenzene	8260B	36		ug/L	28
021	02314 MW25		Naphthalene	8260B	52		ug/L	28
021	02314 MW25	•	tert-butyl alcohol (TBA)	8260B	110	J	ug/L	28
021	02314 MW25	Aqueous	Toluene	8260B	41		ug/L	28
021	02314 MW25	Aqueous	Xylenes (total)	8260B	600		ug/L	28
023	02314 MW27	Aqueous	tert-Amyl alcohol (TAA)	8260B	1700		ug/L	30
023	02314 MW27	Aqueous	Benzene	8260B	380		ug/L	30
023	02314 MW27	Aqueous	Ethylbenzene	8260B	2.2	J	ug/L	30
023	02314 MW27	Aqueous	Naphthalene	8260B	8.5		ug/L	30
023	02314 MW27		tert-butyl alcohol (TBA)	8260B	55	J	ug/L	30
023	02314 MW27	Aqueous	Toluene	8260B	7.5		ug/L	30
023	02314 MW27	Aqueous	Xylenes (total)	8260B	28		ug/L	30
024	02314 DW1	Aqueous	Toluene	8260B	0.56	J	ug/L	31
024	02314 DW1	Aqueous	Xylenes (total)	8260B	1.1		ug/L	31
025	02314 DW2	Aqueous	Toluene	8260B	1.6		ug/L	32
025	02314 DW2	Aqueous	Xylenes (total)	8260B	2.2		ug/L	32
026	02314 DW3	Aqueous	Benzene	8260B	2.1		ug/L	33
026	02314 DW3	Aqueous	Ethylbenzene	8260B	0.96	J	ug/L	33
026	02314 DW3	Aqueous	Naphthalene	8260B	1.4		ug/L	33
026	02314 DW3	Aqueous	Toluene	8260B	3.1		ug/L	33
026	02314 DW3	Aqueous	Xylenes (total)	8260B	7.1		ug/L	33
027	02314 RW1	Aqueous	tert-Amyl alcohol (TAA)	8260B	48000		ug/L	34
027	02314 RW1	Aqueous	tert-Amyl methyl ether	8260B	190	J	ug/L	34
027	02314 RW1	Aqueous	Benzene	8260B	11000		ug/L	34
027	02314 RW1	Aqueous	Diisopropyl ether (IPE)	8260B	1000		ug/L	34

Detection Summary (Continued)

Lot Number: TL28015

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
027	02314 RW1	Aqueous	Ethanol	8260B	770000		ug/L	34
027	02314 RW1	Aqueous	Ethylbenzene	8260B	1800		ug/L	34
027	02314 RW1	Aqueous	Methyl tertiary butyl ether	8260B	160	J	ug/L	34
027	02314 RW1	•	Naphthalene	8260B	810		ug/L	34
027	02314 RW1	Aqueous	•	8260B	32000		ug/L	34
027	02314 RW1	•	Xylenes (total)	8260B	16000		ug/L	34
027	02314 RW1	•	1,2-Dibromoethane (EDB)	8011	2.8		ug/L	34
028	02314 RW2	•	tert-Amyl alcohol (TAA)	8260B	5400		ug/L	35
028	02314 RW2	Aqueous	Benzene	8260B	7900		ug/L	35
028	02314 RW2	Aqueous		8260B	240000		ug/L	35
028	02314 RW2	Aqueous	Ethylbenzene	8260B	3100		ug/L	35
028	02314 RW2	•	Naphthalene	8260B	610		ug/L	35
028	02314 RW2	Aqueous		8260B	38000		ug/L	35
028	02314 RW2		Xylenes (total)	8260B	17000		ug/L	35
029	02314 RW3	Aqueous	tert-Amyl alcohol (TAA)	8260B	23000		ug/L	36
029	02314 RW3	•	Benzene	8260B	4400		ug/L	36
029	02314 RW3		Ethylbenzene	8260B	1500		ug/L	36
029	02314 RW3	•	Naphthalene	8260B	280		ug/L	36
029	02314 RW3	Aqueous	Toluene	8260B	18000		ug/L	36
029	02314 RW3	•	Xylenes (total)	8260B	9200		ug/L	36
030	02314 RW4	•	tert-Amyl alcohol (TAA)	8260B	32000		ug/L	37
030	02314 RW4		Benzene	8260B	11000		ug/L	37
030	02314 RW4	Aqueous		8260B	2500000		ug/L	37
030	02314 RW4	•	Ethylbenzene	8260B	3700		ug/L	37
030	02314 RW4		Naphthalene	8260B	520		ug/L	37
030	02314 RW4	Aqueous	·	8260B	47000		ug/L	37
030	02314 RW4		Xylenes (total)	8260B	20000		ug/L	37
031	02314 RW5	•	tert-Amyl alcohol (TAA)	8260B	8700		ug/L	38
031	02314 RW5		Benzene	8260B	7000		ug/L	38
031	02314 RW5	Aqueous	Diisopropyl ether (IPE)	8260B	190	J	ug/L	38
031	02314 RW5	Aqueous	Ethanol	8260B	490000		ug/L	38
031	02314 RW5	Aqueous	Ethylbenzene	8260B	3600		ug/L	38
031	02314 RW5	-	Naphthalene	8260B	630		ug/L	38
031	02314 RW5	Aqueous	•	8260B	31000		ug/L	38
031	02314 RW5	•	Xylenes (total)	8260B	21000		ug/L	38
033	02314 MW24 dup	Aqueous	tert-Amyl alcohol (TAA)	8260B	3300		ug/L	40
033	02314 MW24 dup	-	Benzene	8260B	2100		ug/L	40
033	02314 MW24 dup	Aqueous	Ethylbenzene	8260B	730		ug/L	40
033	02314 MW24 dup	Aqueous	Naphthalene	8260B	82		ug/L	40
033	02314 MW24 dup	Aqueous	·	8260B	9300		ug/L	40
033	02314 MW24 dup	Aqueous	Xylenes (total)	8260B	3900		ug/L	40
034	02314 RW4 dup	Aqueous	tert-Amyl alcohol (TAA)	8260B	32000		ug/L	41
034	02314 RW4 dup	Aqueous	Benzene	8260B	9800		ug/L	41
034	02314 RW4 dup	Aqueous		8260B	2400000		ug/L	41
034	02314 RW4 dup	Aqueous	Ethylbenzene	8260B	5500		ug/L	41
034	02314 RW4 dup	•	Naphthalene	8260B	3100		ug/L	41
034	02314 RW4 dup	Aqueous		8260B	49000		ug/L	41
034	02314 RW4 dup		Xylenes (total)	8260B	32000		ug/L	41
	·		. ,				-	

Detection Summary (Continued)

Lot Number: TL28015

Sample Sample ID		Matrix	Parameter	Method	Result	Q	Units	Page
034	02314 RW4 dup	Aqueous	1,2-Dibromoethane (EDB)	8011	0.076	Р	ug/L	41

(142 detections)

Description: 02314 MW2R

Methyl tertiary butyl ether (MTBE)

Naphthalene

Xylenes (total)

Toluene

tert-butyl alcohol (TBA)

Date Sampled: 12/28/2018 1031 Date Received: 12/28/2018

Run Prep Method

Laboratory ID: TL28015-001

Batch

100

100

2000

100

100

Matrix: Aqueous

40

40

800

40

40

ug/L

ug/L

ug/L

ug/L

ug/L

1

1

1

1

Volatile	Organic (Compounds	by GC/MS
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Prep Date

ND

670

ND

15000

13000

Analytical Method Dilution Analysis Date Analyst

1634-04-4

91-20-3

75-65-0

108-88-3

1330-20-7

1 5030B 8260B	100 0	1/04/2019 0343 MNS		93999			
Parameter	CA Numbe	•	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-	4 8260B	8100	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-	8 8260B	ND	1000	42	ug/L	1
Benzene	71-43-	-2 8260B	2600	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-	4 8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-	2 8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-	3 8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-	3 8260B	ND	2000	800	ug/L	1
Ethanol	64-17-	5 8260B	ND	10000	4000	ug/L	1
Ethylbenzene	100-41-	4 8260B	2500	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-	3 8260B	ND	100	40	ug/L	1

8260B

8260B

8260B

8260B

8260B

Run 1 Acceptance Surrogate Q % Recovery Limits 1,2-Dichloroethane-d4 104 70-130 Bromofluorobenzene 110 70-130 Toluene-d8 110 70-130

EDB & DBCP by Microextraction

Run Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch			
1 8011	8011	1	01/02/2019 1533 DAL1	01/02/2019 (0921 93811			
Parameter		C Num	AS Analytical ber Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	3-4 8011	ND	0.019	0.019	ug/L	1
Surrogate	Q % I	Run 1 A Recovery	cceptance Limits					

84 57-137 1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range

DL = Detection Limit ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL H = Out of holding time

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

W = Reported on wet weight basis

Description: 02314 MW3

Date Sampled:12/27/2018 1852 Date Received: 12/28/2018

Laboratory ID: TL28015-002

Matrix: Aqueous

Volatile	Organic	Compounds	s by	GC/MS
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Run Pr	rep Method 5030B	Analytical Method 8260B	Dilution 5	-	sis Date Analyst 2019 2103 BWS	Prep Date	Batch 94063	
Parame	ter			CAS nber	Analytical Method	Result Q	LOQ	DL
tert-Am	yl alcohol (TAA)		75-	85-4	8260B	870	100	40

Parameter	Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	870	100	40	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	50	2.1	ug/L	2
Benzene	71-43-2	8260B	95	5.0	2.0	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND	25	10	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND	5.0	2.0	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND	5.0	2.0	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	100	40	ug/L	2
Ethanol	64-17-5	8260B	ND	500	200	ug/L	2
Ethylbenzene	100-41-4	8260B	110	5.0	2.0	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	5.0	2.0	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	5.0	2.0	ug/L	2
Naphthalene	91-20-3	8260B	52	5.0	2.0	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	100	40	ug/L	2
Toluene	108-88-3	8260B	61	5.0	2.0	ug/L	2
Xylenes (total)	1330-20-7	8260B	590	5.0	2.0	ug/L	2

Surrogate	Q	Run 2 / % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Da 01/02/2019 1	•	•	Date 019 0921	Batch 93811			
Para	meter		Num		alytical lethod	Result	Q	LOQ	DL	Units	Run
1,2-0	ibromoethane (EDB)		106-9	93-4	8011	ND		0.020	0.020	ug/L	1
Surre	ogate		Run 1	Acceptance Limits							

1,1,1,2-Tetrachloroethane 92 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

P = The RPD between two GC columns exceeds 40%

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW5

Date Sampled:12/28/2018 0849
Date Received: 12/28/2018

Laboratory ID: TL28015-003

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0016 MNS		93999

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1

Run 1 A Q % Recovery	Acceptance Limits
103	70-130
105	70-130
109	70-130
	Q % Recovery 103 105

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	•	sis Date Analyst 2019 1554 DAL1	•		Batch 93811			
Para	ımeter			CAS nber	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-0	Dibromoethane (EDB)		106-9	93-4	8011	ND	(0.019	0.019	ug/L	1
			Run 1	Accept	ance						

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 DL = Detection Limit

% Recovery

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Surrogate

Description: 02314 MW6

Date Sampled:12/27/2018 1927 Date Received: 12/28/2018 Laboratory ID: TL28015-004

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0042 MNS		93999

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept						

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/02/2019 1605 DAL1	01/02/2019 0921	93811

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

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

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 DL = Detection Limit

 $ND = Not \ detected \ at \ or \ above \ the \ DL \\ N = Recovery \ is \ out \ of \ criteria \\ P = The \ RPD \ between \ two \ GC \ columns \ exceeds \ 40\% \\ J = Estimated \ result \ < LOQ \ and \ \ge DL \ and \ > D$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 MW7

Date Sampled:12/27/2018 2035 Date Received: 12/28/2018 Laboratory ID: TL28015-005

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	100	01/04/2019 0409 MNS		93999

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	17000	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	42	ug/L	1
Benzene	71-43-2	8260B	3600	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	170	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND	10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	2000	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene	91-20-3	8260B	840	100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	2000	800	ug/L	1
Toluene	108-88-3	8260B	17000	100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	12000	100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		110	70-130

EDB & DBCP by Microextraction

Run Pro	ep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/02/2019 1615 DAL1	01/02/2019 0921	93811

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.53	0.020	0.020	ug/L	1
0	Run 1 Accept						

Currogato	Q	70 INECOVERY	LIIIIII
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

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and <math>\geq DL$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 MW8

Date Sampled:12/27/2018 2051 Date Received: 12/28/2018

Laboratory ID: TL28015-006

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 20		sis Date Analyst 019 0159 MNS	Prep	Date	Batch 93999			
Parameter		(Num	CAS ber	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	5-4	8260B	6000		400	160	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	5-8	8260B	ND		200	8.4	ug/L	1
Benzene		71-4	3-2	8260B	900		20	8.0	ug/L	1
tert-Butyl formate (TBF)		762-7	5-4	8260B	ND		100	40	ug/L	1
1,2-Dichloroethane		107-0	6-2	8260B	ND		20	8.0	ug/L	1
Diisopropyl ether (IPE)		108-2	0-3	8260B	17	J	20	8.0	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND		400	160	ug/L	1
Ethanol		64-1	7-5	8260B	ND		2000	800	ug/L	1
Ethylbenzene		100-4	1-4	8260B	390		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND		20	8.0	ug/L	1
Naphthalene		91-2	20-3	8260B	42		20	8.0	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND		400	160	ug/L	1
Toluene		108-8	8-3	8260B	1900		20	8.0	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	5000		20	8.0	ug/L	1
Surrogate		Run 1 A	Accepta Limit							
1,2-Dichloroethane-d4		104	70-13	30						

EDB & DBCP by Microextraction

70-130

70-130

110

110

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	•	sis Date Analyst 2019 1626 DAL1	Prep I 01/02/20		Batch 21 93811			
Para	meter			CAS nber	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-D	ibromoethane (EDB)		106-9	93-4	8011	ND		0.019	0.019	ug/L	1
Surro	ogate	Q % I	Run 1 Recovery	Accepta Limi							
111	2-Tetrachloroethane		79	57-1	37						

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation

Bromofluorobenzene

Toluene-d8

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW9

Date Sampled:12/26/2018 1534 Date Received: 12/28/2018 Laboratory ID: TL28015-007

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0107 MNS		93999

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept Q % Recovery Lim						

		Run 1 A	cceptance	
Surrogate	Q	% Recovery	Limits	
1,2-Dichloroethane-d4		104	70-130	
Bromofluorobenzene		104	70-130	
Toluene-d8		110	70-130	

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/02/2019 1637 DAL1	01/02/2019 0921	93811

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

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

1,1,1,2-Tetrachloroethane 85 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 MW10

Date Sampled: 12/26/2018 1654 Date Received: 12/28/2018

Laboratory ID: TL28015-008

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0147 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept Q % Recovery Lim						

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		97	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	8011	1	01/03/2019 1930 SCD	01/02/2019 1115	93835

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

Surrogate Q	% Recovery	limits
•		

1,1,1,2-Tetrachloroethane 80 57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL N = Recovery is out of criteria

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

W = Reported on wet weight basis

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW11

Date Sampled: 12/26/2018 1707 Date Received: 12/28/2018

Laboratory ID: TL28015-009

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0210 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	ance					

Surrogate	Q	Run 1 A % Recovery	cceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 1951	1 SCD	01/02/2019 1115	93835

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

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

1,1,1,2-Tetrachloroethane 63 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = Estimated \ result < LOQ \ and \geq DL$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 MW12

Date Sampled:12/27/2018 1837 Date Received: 12/28/2018

Laboratory ID: TL28015-010

Matrix: Aqueous

Volatile Organic Compounds by GC/I	ИS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	5	01/04/2019 0430 MNS		94009

	CAS	Analytical					
Parameter	Number	Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	2400	100	40	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	50	2.1	ug/L	1
Benzene	71-43-2	8260B	190	5.0	2.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	25	10	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	5.0	2.0	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	40	ug/L	1
Ethanol	64-17-5	8260B	ND	500	200	ug/L	1
Ethylbenzene	100-41-4	8260B	99	5.0	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	5.0	2.0	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	21	5.0	2.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	77 J	100	40	ug/L	1
Toluene	108-88-3	8260B	530	5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	460	5.0	2.0	ug/L	1
	Pun 1 Accont	anaa					

		Run 1 A	cceptance	
Surrogate	Q	% Recovery	Limits	
1,2-Dichloroethane-d4		99	70-130	
Bromofluorobenzene		98	70-130	
Toluene-d8		100	70-130	

EDB & DBCP by Microextraction

Run Prep Me	thod	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	e Batch			
1	8011	8011	1	01/03/2019 2013	SCD	01/02/2019	1115 93835			
Parameter				CAS Analyti		Result Q	LOQ	DL	Units	Run
1 2-Dibromoet	hane (FDB)		106-)11	ND.	0.020	0.020	ua/l	1

Run 1 Acceptance Surrogate % Recovery Limits

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW13

Date Sampled: 12/27/2018 1730 Date Received: 12/28/2018

Laboratory ID: TL28015-011 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	50	01/04/2019 0453 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
							Kun
tert-Amyl alcohol (TAA)	75-85-4	8260B	5500	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	500	21	ug/L	1
Benzene	71-43-2	8260B	1800	50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND	5000	2000	ug/L	1
Ethylbenzene	100-41-4	8260B	1800	50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	50	20	ug/L	1
Naphthalene	91-20-3	8260B	340	50	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	1000	400	ug/L	1
Toluene	108-88-3	8260B	4700	50	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	6000	50	20	ug/L	1
						_	

	Run 1	Acceptance
Q	% Recovery	Limits
	99	70-130
	96	70-130
	100	70-130
	Q	Q % Recovery 99 96

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date An	nalyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 2023 8	SCD	01/02/2019 1115	93835

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

	Run 1 Acceptance
Surrogate	Q % Recovery Limits

1,1,1,2-Tetrachloroethane 71 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW15

Date Sampled: 12/27/2018 1939 Date Received: 12/28/2018

Laboratory ID: TL28015-012

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	200	01/04/2019 1657 BWS		94063

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	31000	4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	2000	84	ug/L	1
Benzene	71-43-2	8260B	5100	200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND	20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	1900	200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	200	80	ug/L	1
Naphthalene	91-20-3	8260B	480	200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1600	ug/L	1
Toluene	108-88-3	8260B	26000	200	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	13000	200	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

				<u> </u>		
Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date Ba	tch
1	8011	8011	1	01/03/2019 2034 SCD	01/02/2019 1115 93	835

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

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

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW16

Date Sampled: 12/26/2018 1503 Date Received: 12/28/2018

Naphthalene

Xylenes (total)

Toluene

tert-butyl alcohol (TBA)

Laboratory ID: TL28015-013 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		alysis Date Analyst 4/2019 0233 MNS	Prep Date	Batch 94009			
Parameter		CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	1.0	0.40	ug/L	1

8260B

8260B

8260B

8260B

ND

ND

ND

ND

1.0

20

1.0

1.0

0.40

8.0

0.40

0.40

ug/L

ug/L

ug/L

ug/L

1

1

91-20-3

75-65-0

108-88-3

1330-20-7

Run 1 Acceptance Surrogate % Recovery Limits 1,2-Dichloroethane-d4 96 70-130 Bromofluorobenzene 100 70-130 Toluene-d8 101 70-130

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011		analysis Date Analyst 1/03/2019 2044 SCD	Prep Date 01/02/2019 1				
Parameter		CA Numbe	, y	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-	4 8011	ND	0.021	0.021	ug/L	1
Surrogate			ceptance Limits					

86 57-137 1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria

J = Estimated result < LOQ and ≥ DL

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 MW17

Date Sampled:12/26/2018 1519 Date Received: 12/28/2018 Laboratory ID: TL28015-014

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0257 MNS		94009

	CAS	Analytical					_
Parameter	Number	Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accep	tance					

		Run 1 A	cceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		97	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	8011	1	01/03/2019 2055 SCD	01/02/2019 1115	93835

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

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

1,1,1,2-Tetrachloroethane 76 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 MW18

Date Sampled: 12/26/2018 1450 Date Received: 12/28/2018

Laboratory ID: TL28015-015

Matrix: Aqueous

Volatile	Organic	Compounds	s b	y GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0320 MNS		94009

CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
75-85-4	8260B	ND	20	8.0	ug/L	1
994-05-8	8260B	ND	10	0.42	ug/L	1
71-43-2	8260B	ND	1.0	0.40	ug/L	1
762-75-4	8260B	ND	5.0	2.0	ug/L	1
107-06-2	8260B	ND	1.0	0.40	ug/L	1
108-20-3	8260B	ND	1.0	0.40	ug/L	1
624-95-3	8260B	ND	20	8.0	ug/L	1
64-17-5	8260B	ND	100	40	ug/L	1
100-41-4	8260B	ND	1.0	0.40	ug/L	1
637-92-3	8260B	ND	1.0	0.40	ug/L	1
1634-04-4	8260B	ND	1.0	0.40	ug/L	1
91-20-3	8260B	ND	1.0	0.40	ug/L	1
75-65-0	8260B	ND	20	8.0	ug/L	1
108-88-3	8260B	ND	1.0	0.40	ug/L	1
1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	75-85-4 994-05-8 71-43-2 762-75-4 107-06-2 108-20-3 624-95-3 64-17-5 100-41-4 637-92-3 1634-04-4 91-20-3 75-65-0 108-88-3 1330-20-7	75-85-4 8260B 994-05-8 8260B 71-43-2 8260B 762-75-4 8260B 107-06-2 8260B 108-20-3 8260B 624-95-3 8260B 64-17-5 8260B 100-41-4 8260B 637-92-3 8260B 1634-04-4 8260B 91-20-3 8260B 75-65-0 8260B	75-85-4 8260B ND 994-05-8 8260B ND 71-43-2 8260B ND 762-75-4 8260B ND 107-06-2 8260B ND 108-20-3 8260B ND 624-95-3 8260B ND 64-17-5 8260B ND 100-41-4 8260B ND 637-92-3 8260B ND 1634-04-4 8260B ND 91-20-3 8260B ND 91-20-3 8260B ND 75-65-0 8260B ND 108-88-3 8260B ND	75-85-4 8260B ND 20 994-05-8 8260B ND 10 71-43-2 8260B ND 1.0 762-75-4 8260B ND 1.0 107-06-2 8260B ND 1.0 108-20-3 8260B ND 1.0 624-95-3 8260B ND 20 64-17-5 8260B ND 100 100-41-4 8260B ND 1.0 637-92-3 8260B ND 1.0 637-92-3 8260B ND 1.0 91-20-3 8260B ND 1.0 91-20-3 8260B ND 1.0 91-20-3 8260B ND 1.0 91-20-3 8260B ND 1.0 108-88-3 8260B ND 20 108-88-3 8260B ND 1.0	75-85-4 8260B ND 20 8.0 994-05-8 8260B ND 10 0.42 71-43-2 8260B ND 1.0 0.40 762-75-4 8260B ND 5.0 2.0 107-06-2 8260B ND 1.0 0.40 108-20-3 8260B ND 1.0 0.40 624-95-3 8260B ND 100 40 100-41-5 8260B ND 100 40 100-41-4 8260B ND 1.0 0.40 637-92-3 8260B ND 1.0 0.40 1634-04-4 8260B ND 1.0 0.40 91-20-3 8260B ND 1.0 0.40 75-65-0 8260B ND 1.0 0.40 108-88-3 8260B ND 1.0 0.40 1330-20-7 8260B ND 1.0 0.40	75-85-4 8260B ND 20 8.0 ug/L 994-05-8 8260B ND 10 0.42 ug/L 71-43-2 8260B ND 1.0 0.40 ug/L 762-75-4 8260B ND 5.0 2.0 ug/L 107-06-2 8260B ND 1.0 0.40 ug/L 108-20-3 8260B ND 1.0 0.40 ug/L 624-95-3 8260B ND 20 8.0 ug/L 64-17-5 8260B ND 100 40 ug/L 100-41-4 8260B ND 1.0 0.40 ug/L 637-92-3 8260B ND 1.0 0.40 ug/L 91-20-3 8260B ND 1.0 0.40 ug/L 91-20-3 8260B ND 1.0 0.40 ug/L 75-65-0 8260B ND 1.0 0.40 ug/L 108-88-3 8260B <td< td=""></td<>

Surrogate	Q	Run 1 A % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date Analys 01/03/2019 2106 SCD	•	Batch 115 93835			
Para	ameter			CAS Analytical	Result O	LOQ	DL	Units	Run

Parameter	Number	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.020	0.020	ug/L	1
	Run 1 Acceptar	nce					

		Run i Acceptance	
Surrogate	Q	% Recovery Limits	
1 1 1 2 Tatrachlaracthana		02 57 127	

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW20

Date Sampled: 12/27/2018 1628 Date Received: 12/28/2018

Laboratory ID: TL28015-016

Matrix: Aqueous

Volatile	Organic	Compounds	i by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	50	01/04/2019 1720 BWS		94063

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	9900	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	500	21	ug/L	1
Benzene	71-43-2	8260B	3300	50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND	5000	2000	ug/L	1
Ethylbenzene	100-41-4	8260B	840	50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	50	20	ug/L	1
Naphthalene	91-20-3	8260B	220	50	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	1000	400	ug/L	1
Toluene	108-88-3	8260B	6600	50	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	4300	50	20	ug/L	1

Surrogate	Q	Run 1 A % Recovery	cceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 2116 SCD	01/02/2019 1115	93835

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

Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

1,1,1,2-Tetrachloroethane 71 57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

W = Reported on wet weight basis

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW21

Date Sampled:12/26/2018 1325 Date Received: 12/28/2018 Laboratory ID: TL28015-017

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0344 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	40	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1

EDB & DBCP by Microextraction

Run P	Prep Method	Analytical Method	Dilution	Analysis Date Analys	t Prep Date	Batch			
1	8011	8011	1	01/03/2019 2127 SCD	01/02/2019	1115 93835			
				CAS Analytical					
Param	eter		Nun	nber Method	Result Q	LOQ	DL	Units	Run
	romoethane (EDB)			93-4 8011	ND	0.020	0.020	ug/L	

Run 1 Acceptance
Surrogate Q % Recovery Limits

1,1,1,2-Tetrachloroethane 77 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 MW22

Date Sampled: 12/26/2018 1243 Date Received: 12/28/2018

Laboratory ID: TL28015-018

Matrix: Aqueous

Volatile	Organic	Compounds	s by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 1358 BWS		94063

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	ance					

		Run 1 A	cceptance	
Surrogate	Q	% Recovery	Limits	
1,2-Dichloroethane-d4		102	70-130	
Bromofluorobenzene		100	70-130	
Toluene-d8		101	70-130	

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 2137	SCD	01/02/2019 1115	93835

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

		70 110001019	
Surrogate	Q	% Recovery	Limits
		Run 1	Acceptance

1,1,1,2-Tetrachloroethane 82 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW23

Date Sampled:12/27/2018 1513 Date Received: 12/28/2018

Laboratory ID: TL28015-019

Matrix: Aqueous

Volatile Organic Com	pounds by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch	
1	5030B	8260B	50	01/04/2019 1742 BWS		94063	
							_

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	6700	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	500	21	ug/L	1
Benzene	71-43-2	8260B	1800	50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND	5000	2000	ug/L	1
Ethylbenzene	100-41-4	8260B	660	50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	50	20	ug/L	1
Naphthalene	91-20-3	8260B	120	50	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	1000	400	ug/L	1
Toluene	108-88-3	8260B	5900	50	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	3900	50	20	ug/L	1

Surrogate	Q	Run 1 A % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch		
1	8011	8011	1	01/03/2019 2148 SCD	01/02/2019 111	5 93835		
CAS Analytical								

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

Ourrogate	Q	% Recovery	LIIIIII
1.1.1.2-Tetrachloroethane		92	57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL N = Recovery is out of criteria

W = Reported on wet weight basis

P = The RPD between two GC columns exceeds 40%

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

H = Out of holding time

Description: 02314 MW24

Date Sampled: 12/26/2018 1746 Date Received: 12/28/2018

Laboratory ID: TL28015-020

Matrix: Aqueous

Volatile Organic Compounds	b	y GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	100	01/04/2019 1804 BWS		94063

	CAS	Analytical					
Parameter	Number	Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	3700	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	42	ug/L	1
Benzene	71-43-2	8260B	2200	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND	10000	4000	ug/L	1
Ethylbenzene	100-41-4	8260B	780	100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	100	40	ug/L	1
Naphthalene	91-20-3	8260B	87 J	100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	2000	800	ug/L	1
Toluene	108-88-3	8260B	9400	100	40	ug/L	1
Xylenes (total)	1330-20-7	8260B	3900	100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run F	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 2159 SCD	01/02/2019 1115	93835

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

	Run 1	Acceptance
Surrogate	Q % Recov	ery Limits

1,1,1,2-Tetrachloroethane 85 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

W = Reported on wet weight basis

Description: 02314 MW25 ate Sampled:12/27/2018 152

Date Sampled:12/27/2018 1524
Date Received: 12/28/2018

Laboratory ID: TL28015-021

Matrix: Aqueous

Volatile Organic Com	pounds by	y GC/MS
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Run Prep Method 1 5030B	Analytical Method 8260B		Analysis Date Analys 01/04/2019 1826 BWS	t Prep Date	Batch 94063	
Parameter		C Numl	AS Analytical per Method	Result Q	LOQ	DL
tert-Amyl alcohol (TAA)		75-8	5_4 8260B	4500	200	90

Parameter	Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	4500	200	80	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	100	4.2	ug/L	1
Benzene	71-43-2	8260B	1200	10	4.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	50	20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	10	4.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	16	10	4.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	200	80	ug/L	1
Ethanol	64-17-5	8260B	ND	1000	400	ug/L	1
Ethylbenzene	100-41-4	8260B	36	10	4.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	10	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	10	4.0	ug/L	1
Naphthalene	91-20-3	8260B	52	10	4.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	110 J	200	80	ug/L	1
Toluene	108-88-3	8260B	41	10	4.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	600	10	4.0	ug/L	1

		Run 1	Acceptance	
Surrogate	Q	% Recovery	Limits	
1,2-Dichloroethane-d4		101	70-130	
Bromofluorobenzene		104	70-130	
Toluene-d8		100	70-130	

EDB & DBCP by Microextraction

				ej mioreani	401.011				
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep Date	Batch			
1 8011	8011	1	01/03/	2019 2210 SCD	01/02/2019	1115 93835			
			CAS	Analytical					
Parameter		Num	ber	Meťhod	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	3-4	8011	ND	0.020	0.020	ug/L	1
Surrogate		Run 1 A	Accept Limi						

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 DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

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

Description: 02314 MW26

Date Sampled: 12/26/2018 1255 Date Received: 12/28/2018

Laboratory ID: TL28015-022 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 1420 BWS		94063

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Aylones (total)	Pun 1 Accord		NB	1.0	0.40	ug/L	

EDB & DBCP by Microextraction

1 8011 8011 1 01/03/2019 2220 SCD 01/02/2019 1115 93835	Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
	1	8011	8011	1	01/03/2019 2220	SCD	01/02/2019 1115	93835

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

Surrogate % Recovery Limits 1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

DL = Detection Limit $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW27

Date Sampled: 12/27/2018 1556 Date Received: 12/28/2018

Laboratory ID: TL28015-023

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	5	01/04/2019 1848 BWS		94063

Parameter	Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
ert-Amyl alcohol (TAA)	75-85-4	8260B	1700		100	40	ug/L	1
ert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	2.1	ug/L	1
Benzene	71-43-2	8260B	380		5.0	2.0	ug/L	1
ert-Butyl formate (TBF)	762-75-4	8260B	ND		25	10	ug/L	1
I,2-Dichloroethane	107-06-2	8260B	ND		5.0	2.0	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	40	ug/L	1
Ethanol	64-17-5	8260B	ND		500	200	ug/L	1
Ethylbenzene	100-41-4	8260B	2.2	J	5.0	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	2.0	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	8.5		5.0	2.0	ug/L	1
ert-butyl alcohol (TBA)	75-65-0	8260B	55	J	100	40	ug/L	1
Toluene	108-88-3	8260B	7.5		5.0	2.0	ug/L	1
(ylenes (total)	1330-20-7	8260B	28		5.0	2.0	ug/L	1

Surrogate	Run 1 Q % Recove	•
1,2-Dichloroethane-d4	103	3 70-130
Bromofluorobenzene	103	3 70-130
Toluene-d8	102	2 70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 2231	SCD	01/02/2019 1115	93835

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

1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.020	0.020	ug/L	1
Surrogate	Run 1 Acceptance Q % Recovery Limits	е					

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 DW1

Date Sampled:12/26/2018 1630 Date Received: 12/28/2018 Laboratory ID: TL28015-024
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 1442 BWS		94063

Bt	CAS	Analytical	D	1.00	D.	1114-	D
Parameter	Number	Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	0.56 J	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	1.1	1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Ru 1	n Prep Method 8011	Analytical Method 8011	Dilution 1	O1/03/2019 2242		Date 12019 1115 9	Batch 93835		
Pa	ırameter			CAS Analyt		t Q L	.OQ DL	L Units	Run
1,2	2-Dibromoethane (EDB)		106-9	93-4 80	011 ND	0.0	020 0.02	20 ug/L	1

Run 1 Acceptance
Surrogate Q % Recovery Limits

1,1,1,2-Tetrachloroethane 88 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 DW2

Date Sampled:12/26/2018 1356
Date Received: 12/28/2018

Laboratory ID: TL28015-025
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 1504 BWS		94063

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	1.6	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	2.2	1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date Batc	h
1	8011	8011	1	01/03/2019 2253 SCD	01/02/2019 1115 9383	5

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

Surrogate Run 1 Acceptance
Q % Recovery Limits

1,1,1,2-Tetrachloroethane 82 57-137

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

DL = Detection Limit

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.

Description: 02314 DW3

Date Sampled: 12/26/2018 1228 Date Received: 12/28/2018

Laboratory ID: TL28015-026

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 1527 BWS		94063

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	2.1	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	0.96 J	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	1.4	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	3.1	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	7.1	1.0	0.40	ug/L	1

_	Run 1	Acceptance
Surrogate	Q % Recove	ry Limits
1,2-Dichloroethane-d4	100	70-130
Bromofluorobenzene	102	70-130
Toluene-d8	100	70-130

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 01/03/2019 2303	•	rep Date 02/2019 1115	Batch 93835			
Para	ımeter			CAS Analyt	ical		LOQ	DL	Units	Run
1,2-	Dibromoethane (EDB)		106-9	93-4 8	011 N	VD 0	.021	0.021	ug/L	1

Run 1 Acceptance Surrogate % Recovery Limits

1,1,1,2-Tetrachloroethane 60 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Description: 02314 RW1

Date Sampled:12/28/2018 0946
Date Received: 12/28/2018

Laboratory ID: TL28015-027
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

RunPrep MethodAnalytical Method15030B8260B		alysis Date Analyst 04/2019 1910 BWS	Prep D	Pate Batch 94063			
Parameter	CAS Number	Analytical Method	Result	Q LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	48000	4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	190	J 2000	84	ug/L	1
Benzene	71-43-2	8260B	11000	200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	1000	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	4000	1600	ug/L	1
Ethanol	64-17-5	8260B	770000	20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	1800	200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	160	J 200	80	ug/L	1
Naphthalene	91-20-3	8260B	810	200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1600	ug/L	1
Toluene	108-88-3	8260B	32000	200	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	16000	200	80	ug/L	1

Surrogate	_		cceptance	
Surrogate	Q	% Recovery	Limits	
1,2-Dichloroethane-d4		100	70-130	
Bromofluorobenzene		101	70-130	
Toluene-d8		102	70-130	

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011		Analysis Date Analyst 01/04/2019 0308 SCD	Prep Date 01/02/2019 1				
Parameter		C. Numb	AS Analytical per Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93	3-4 8011	2.8	0.097	0.097	ug/L	1
Surrogate	Q %I	Run 1 A	cceptance					

1,1,1,2-Tetrachloroethane 68 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and <math>\geq DL$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 RW2

Date Sampled: 12/28/2018 1015 Date Received: 12/28/2018

Laboratory ID: TL28015-028

Matrix: Aqueous

Volatile Organic Compounds I	by GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	200	01/04/2019 0602 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	5400	4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	2000	84	ug/L	1
Benzene	71-43-2	8260B	7900	200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	4000	1600	ug/L	1
Ethanol	64-17-5	8260B	240000	20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	3100	200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	200	80	ug/L	1
Naphthalene	91-20-3	8260B	610	200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	4000	1600	ug/L	1
Toluene	108-88-3	8260B	38000	200	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	17000	200	80	ug/L	1
, , , , , , , , , , , , , , , , , , , ,					•	3	

Surrogate	Q	Run 1 A % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date E	Batch
1	8011	8011	1	01/03/2019 2357 SCD	01/02/2019 1120 9	3836

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

Surrogate	Q	% Recovery	•
1,1,1,2-Tetrachloroethane		83	57-137

LOQ = Limit of Quantitation

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

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H = Out of holding time W = Reported on wet weight basis

Description: 02314 RW3

Run Prep Method

Date Sampled:12/27/2018 1815
Date Received: 12/28/2018

Laboratory ID: TL28015-029

Matrix: Aqueous

Batch

Volatile Organic Compounds by GC/MS

Analytical Method Dilution Analysis Date Analyst

1 5030B	8260B 100 01/04	1/2019 0539 MNS	3	94009			
Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	23000	2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	1000	42	ug/L	1
Benzene	71-43-2	8260B	4400	100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	2000	800	ug/L	1
Ethanol	64-17-5	8260B	ND	10000	4000	ua/L	1

Ethylbenzene 100-41-4 8260B 1500 100 40 ug/L 1 Ethyl-tert-butyl ether (ETBE) 637-92-3 8260B ND 100 40 ug/L 1634-04-4 Methyl tertiary butyl ether (MTBE) 8260B ND 100 40 ug/L 1 Naphthalene 91-20-3 8260B 280 100 40 ug/L tert-butyl alcohol (TBA) 75-65-0 8260B 2000 800 ND ug/L 1 Toluene 108-88-3 8260B 18000 100 40 ug/L 1 Xylenes (total) 1330-20-7 8260B 9200 100 40 ug/L 1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011		•	sis Date Analyst 019 0018 SCD	Prep Date 01/02/2019 1	Batch 120 93836			
Parameter		Num	CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.019	0.019	ug/L	1
		Run 1 A	Accepta	nce					

SurrogateQ% RecoveryLimits1,1,1,2-Tetrachloroethane9557-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL

H = Out of holding time W = Reported on wet weight basis

Description: 02314 RW4

Date Sampled: 12/27/2018 1759 Date Received: 12/28/2018

Laboratory ID: TL28015-030

Matrix: Aqueous

Vola	itile	Organic	Com	pounds	by	GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch	
1	5030B	8260B	500	01/04/2019 0649 MNS		94009	
				CAS Analytical			٠

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	32000	10000	4000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	5000	210	ug/L	1
Benzene	71-43-2	8260B	11000	500	200	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	2500	1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	500	200	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	500	200	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	10000	4000	ug/L	1
Ethanol	64-17-5	8260B	2500000	50000	20000	ug/L	1
Ethylbenzene	100-41-4	8260B	3700	500	200	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	500	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	500	200	ug/L	1
Naphthalene	91-20-3	8260B	520	500	200	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	10000	4000	ug/L	1
Toluene	108-88-3	8260B	47000	500	200	ug/L	1
Xylenes (total)	1330-20-7	8260B	20000	500	200	ug/L	1

	Run 1 A	cceptance	
Q	% Recovery	Limits	
	98	70-130	
	95	70-130	
	99	70-130	
	Q	Q % Recovery 98 95	Q % Recovery Limits 98 70-130 95 70-130

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 01/04/2019 003	-	Prep Date 01/02/2019 1120	Batch 93836			
Parar	meter			CAS Analy nber Met		Result Q	LOQ	DL	Units	Run
1,2-Di	ibromoethane (EDB)		106-9	93-4	3011	ND	0.020	0.020	ug/L	1

		Run 1	Acceptance
Surrogate	Q	% Recovery	Limits

1,1,1,2-Tetrachloroethane 85 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 RW5

Date Sampled: 12/27/2018 1700 Date Received: 12/28/2018

Laboratory ID: TL28015-031

Matrix: Aqueous

V	olatil	e Org	ganic	Com	pound	s by	y GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	200	01/04/2019 0626 MNS		94009

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	8700		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	84	ug/L	1
Benzene	71-43-2	8260B	7000		200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	190	J	200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260B	490000		20000	8000	ug/L	1
Ethylbenzene	100-41-4	8260B	3600		200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		200	80	ug/L	1
Naphthalene	91-20-3	8260B	630		200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	108-88-3	8260B	31000		200	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	21000		200	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run P	rep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/04/2019 0050 SCD	01/02/2019 1120	93836

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

Surrogate % Recovery Limits 1,1,1,2-Tetrachloroethane 75 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 SW1

Date Sampled: 12/27/2018 0835 Date Received: 12/28/2018

Laboratory ID: TL28015-032 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0407 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	tance					

Surrogate Q % Recovery Limits 1,2-Dichloroethane-d4 97 70-130 Bromofluorobenzene 98 70-130
,
Bromofluorobenzene 98 70-130
Bromondor obonizano
Toluene-d8 99 70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst Pre	p Date	Batch			
1	8011	8011	1	01/04/2019 010	0 SCD 01/02	2/2019 1120	93836			
				CAS Analy						
Para	ameter		Nun	nber Metl	nod Resu	It Q	LOQ	DL	Units	Run
1,2-0	Dibromoethane (EDB)		106-	93-4 8	011 ND) 0	0.019	0.019	ug/L	1

Run 1 Acceptance Surrogate % Recovery Limits

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 MW24 dup

Date Sampled: 12/26/2018 1748 Date Received: 12/28/2018

Laboratory ID: TL28015-033

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	50	01/04/2019 0516 MNS		94009

5	CAS	Analytical	D 11 0		ъ.		_
Parameter	Number	Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	3300	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	500	21	ug/L	1
Benzene	71-43-2	8260B	2100	50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND	5000	2000	ug/L	1
Ethylbenzene	100-41-4	8260B	730	50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	50	20	ug/L	1
Naphthalene	91-20-3	8260B	82	50	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	1000	400	ug/L	1
Toluene	108-88-3	8260B	9300	50	20	ug/L	1
Xylenes (total)	1330-20-7	8260B	3900	50	20	ug/L	1

Surrogate	Q	Run 1 A % Recovery	cceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/04/2019 0111 SCD	01/02/2019 1120	93836

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

Surrogate	Q	% Recovery	Limits
1 1 1 2 Totrochloroothono		96	E7 127

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation ND = Not detected at or above the DL

N = Recovery is out of criteria

H = Out of holding time

W = Reported on wet weight basis

P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Description: 02314 RW4 dup

Date Sampled: 12/27/2018 1801 Date Received: 12/28/2018

Laboratory ID: TL28015-034 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	500	01/04/2019 0712 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	32000	10000	4000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	5000	210	ug/L	1
Benzene	71-43-2	8260B	9800	500	200	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	2500	1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	500	200	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	500	200	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	10000	4000	ug/L	1
Ethanol	64-17-5	8260B	2400000	50000	20000	ug/L	1
Ethylbenzene	100-41-4	8260B	5500	500	200	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	500	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	500	200	ug/L	1
Naphthalene	91-20-3	8260B	3100	500	200	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	10000	4000	ug/L	1
Toluene	108-88-3	8260B	49000	500	200	ug/L	1
Xylenes (total)	1330-20-7	8260B	32000	500	200	ug/L	1

		Run 1 A	cceptance
Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Metho	d Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	801	1	01/04/2019 0122 SCD	01/02/2019 1120	93836

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.076 P	0.019	0.019	ug/L	1
	Run 1 Accepta	ince					

Surrogate	Q	% Recovery	Limits
1 1 1 2 Totrophloroothons		0.5	E7 127

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 FB1

Date Sampled: 12/26/2018 1200 Date Received: 12/28/2018

Laboratory ID: TL28015-035 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0014 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
	Run 1 Accept	tance					

Surrogate	Q	Run 1 / % Recovery	cceptance Limits	
1,2-Dichloroethane-d4		96	70-130	
Bromofluorobenzene		95	70-130	
Toluene-d8		98	70-130	

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011		nalysis Date Analyst /04/2019 0132 SCD	Prep Date 01/02/2019 1	Batch 120 93836			
Parameter		CAS Number	, . ,	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.019	0.019	ug/L	1
Surrogate			eptance _imits					

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.

Description: 02314 FB2

Date Sampled:12/27/2018 0825
Date Received: 12/28/2018

Laboratory ID: TL28015-036

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0037 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1
Surrogate	Run 1 Accept						

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	l Dilution	Analysis Date Analyst	Prep Date	Batch
1	8011	8011	1	01/04/2019 0143 SCD	01/02/2019 1120	93836
				CAS Analytical		

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

SurrogateQ% RecoveryLimits1,1,1,2-Tetrachloroethane8957-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

ND = Not detected at or above the DL H = Out of holding time N = Recovery is out of criteria W = Reported on wet weight basis DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.

Description: 02314 FB3

Date Sampled: 12/28/2018 0740 Date Received: 12/28/2018

Laboratory ID: TL28015-037 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	01/04/2019 0100 MNS		94009

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.40	ug/L	1

EDB & DBCP by Microextraction

Run Prep Method 1 8011	Analytical Method 8011		Analysis Date Analyst 1/04/2019 0154 SCD	Prep Date 01/02/2019				
Parameter		C <i>A</i> Numb	7 tilaly tious	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-	-4 8011	ND	0.019	0.019	ug/L	1
Surrogate		Run 1 Ac Recovery	ceptance Limits					

1,1,1,2-Tetrachloroethane 57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.

Description: 02314 TB Date Sampled:12/26/2018 Date Received: 12/28/2018

Toluene

Xylenes (total)

Laboratory ID: TL28015-038

Matrix: Aqueous

0.40

0.40

1.0

1.0

1

1

ug/L

ug/L

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	-	ysis Date Analyst /2019 0123 MNS	Prep Date	Batch 94009			
Parameter		CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-43-2	8260B	ND	1.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-41-4	8260B	ND	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	1.0	0.40	ug/L	1
Naphthalene		91-20-3	8260B	ND	1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND	20	8.0	ug/L	1

8260B

8260B

ND

ND

108-88-3

1330-20-7

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		99	70-130

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $\label{eq:J} J = \text{Estimated result} < \text{LOQ and} \geq \text{DL}$

Shealy Environmental Services, Inc.