D H E C

PROMOTE PROTECT PROSPER

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

UST 1 tech DOCKETING

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 Event
___All 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)

Financial Relationship: A connection or association through a material interest of sources of income, which exceed five percent of annual gross income from a business entity.

Familial Relationship: 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 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 Event
__✓__ All future assessment scopes. **

Name of Contractor/Person(s) Terry Environmental Services

Address P.O. Box 25
Summerville, S.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)

Financial Relationship: A connection or association through a material interest of sources of income, which exceed five percent of annual gross income from a business entity.

Familial Relationship: 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 Charles Jackson Jr

Date Signed 10/29/12

D H E C

PROMOTE PROTECT PROSPER

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 _____ Date 10/24/13

Contractor QA Officer Signature

Kelly K. Cone _____ Date 10/24/13

Site Rehabilitation Contractor Signature

Ashley Amick _____ Date 10/24/13

Access Analytical Laboratory Director Signature

Scott Bailey _____ Date 10/24/13

GCAL Laboratory Director Signature

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ATTACHMENTS	DESCRIPTION
1	Figures
2	Chain of Custody
3	Laboratory Facility Description and Equipment

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	jterry@terryenvironmental.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@terryenvironmental.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@terryenvironmental.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@terryenvironmental.com
John Kerr	Field Staff/Team Leader		TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873-8200	843-873-8765	jkerr@terryenvironmental.com
Brian Spillane	Field Staff/Team Leader		TERRY Environmental Services Inc., PO Box 25, Summerville, SC 29484	843-873-8200	843-873-8765	bspillane@terryenvironmental.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 7 days after cost approval and report will be submitted within 60 days.*

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 Lead 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 Addendum via:

xxxxx US Mail ____Courier ____Hand delivered Other (please specify):_____

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/ Electronic	Corporate Office/ Secured Storage Facility – 10 yrs	10 years
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: All dates subject 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.
n/a

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
VOC's (BTEX/Napth/MTBE/DCA)	8260B	
Oxygenates	8260B	
EDB	8011	
Lead	6010C	
pH	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

1. 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

1. 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.

B9 Data Acquisition Requirements (Non-Direct Measurements)

1. 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

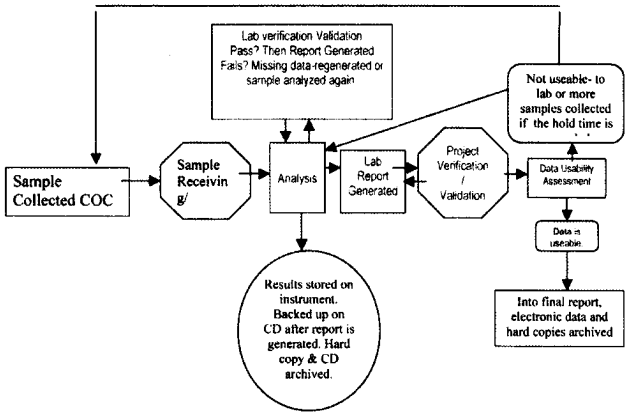
Data Source	Used for	Relevance	Justification for use in this project	Comments
SCDHEC Freedom of Information Office	Historical Data	Site History	To obtain site and release history.	

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.

Figure 1 Data Management Scheme



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 on-site 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

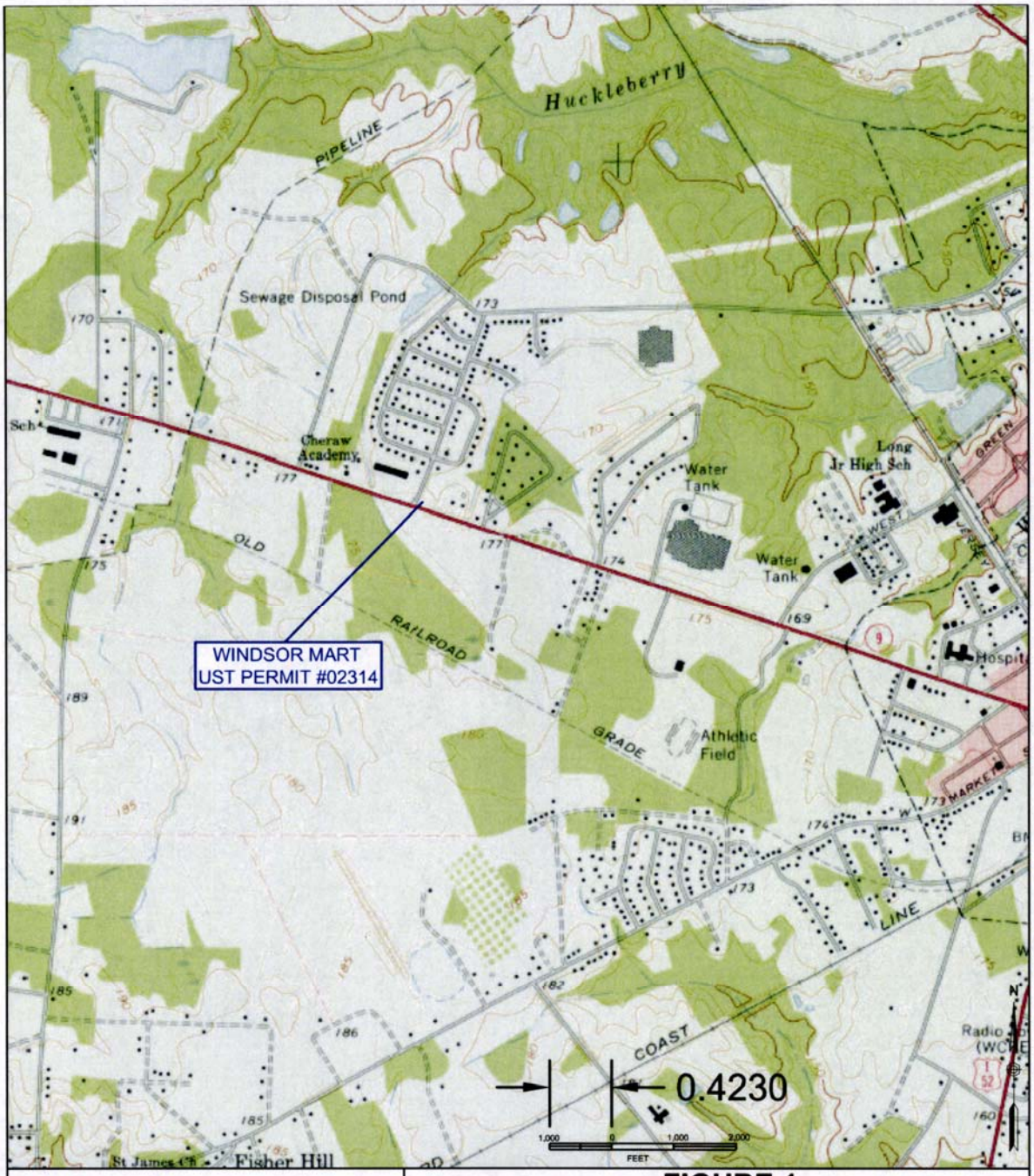


FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

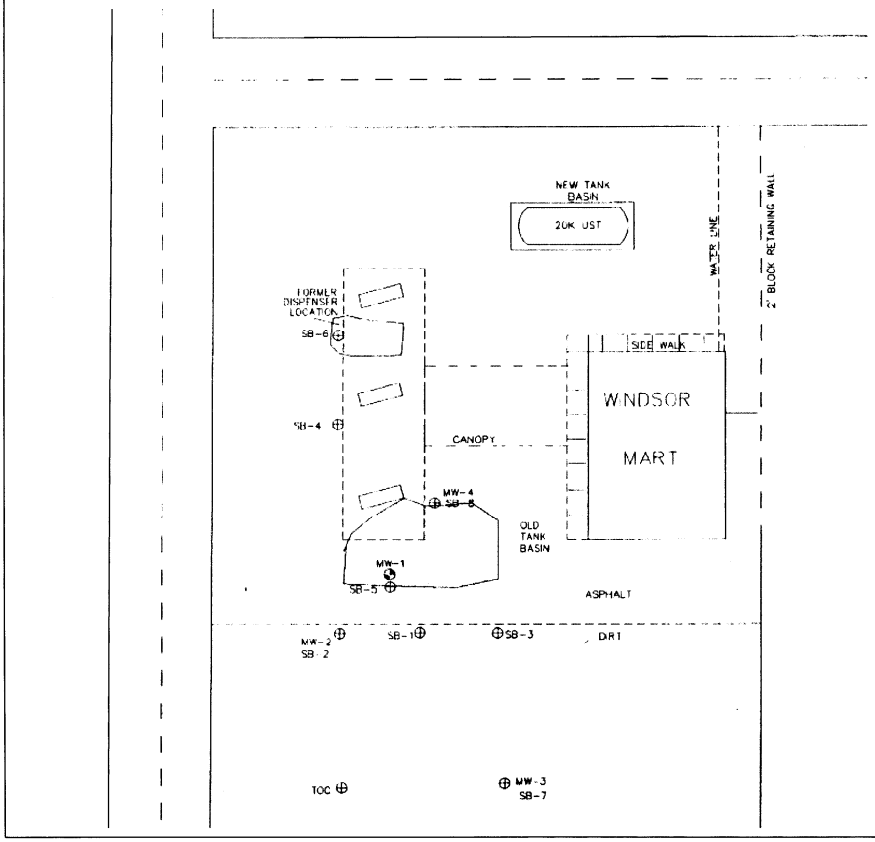
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9	Figure 1 Topo Map	

SCALE: As Shown

DATE: October 2013



TITLE: SITE LOCATION MAP

DATE	PROJECT	CHECKED BY
7/14/97	WINDSOR MART S.C. HWY. 9 & WINDSOR DR. CHERAW, S.C.	JR
SCALE: 1:20		DRAWN BY: TGF
SITE ID#: 02314	DUNCAN ENVIRONMENTAL ASSOCIATES, INC. 10817-C TWO NOTCH RD. ELGIN, S.C. 29045 803-788-4333 FAX=788-4555	FIGURE: 2

0 20'
1" = 20'

Notes:
1) This figure was adapted from previous work performed by other companies and is presented here for illustrative purposes only. TERRY does not certify the accuracy of this figure.
2) Certain aspects of this figure may have been produced in color. Reproduction without color may not yield the intended information.

TERRY ENVIRONMENTAL SERVICES
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FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9	02314
SCALE: As Shown	DATE: October 2013

ATTACHMENT 2

Chain of Custody

Access Analytical - Chain of Custody Record

LAB USE ONLY

Project Work Order # _____ **PO #** _____ **Access Quote #** _____ LAB USE ONLY **Laboratory ID:** _____

Company Name:

Report To:

Address:

City: State: Zip:

Phone: Fax:

Email:

Project ID:

Sampled By:

Preservative: (*see codes)

Container Type: (*see codes)

↓ REQUESTED LAB ANALYSIS: ↓

Sample ID/Description	Date Collected:	Time Collected:	Type: (grab or composite)	Matrix: (see codes)	Program Area (see codes)	TOTAL # of containers	# of containers collected ↓ for analysis

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes *(place corresponding # in block above analysis field)*: 0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4

*Matrix Codes *(place corresponding code in matrix column)*: GW = ground water, WW = waste water, DW = drinking water, S = soil, SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other *(specify in comments section)*

*Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

NOTES / COMMENTS

(if sample is a composite please use space below to note start/finish times & dates)

Turnaround Time:

___ Standard
___ RUSH*
*Date Required:_____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:

___SC
___NC
___Other
(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C):	
				_____(°C)	_____(N/A)
				_____(°C)	_____(N/A)
				_____(°C)	_____(N/A)
				_____(°C)	_____(N/A)

See Reverse for Terms and Conditions

Original Copy - Returned w/Report
Yellow Copy - Access File Copy

Page ___ of ___

ATTACHMENT 3

Laboratory Facility
Description and Equipment

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

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.

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.

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

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

GCAL Equipment List

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 11	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 (V0A 2)	983108619
FREEZER#12	MSV lab	January-97	January-97	new	FRIGIDAIRE, MODEL #MFU17F3GW6 (#12)	WB02927861
REFRIGERATOR (#41)	MSV lab	February-11	February-11	new	FRIDGIDAIRE (#41)	BU1210823890132
BALANCE	MSV lab	January-97	January-97	new	METTLER AE200	L65273
GCSV 12	GCSV Lab	November-03	November-03	new	AGILENT TECH 6980N	US10338067
GCSV 14	GCSV Lab	January-04	January-04	new	AGILENT TECH 6980N	US10342128
GCSV 15	GCSV Lab	April-04	April-04	new	AGILENT TECH 6980N	CN10413018
GCSV 16	GCSV Lab	August-05	August-05	new	AGILENT TECH 6980N	CN10525006
GCSV 17	GCSV Lab	September-05	September-05	new	AGILENT TECH 6980N	CN10529074

GCAL Equipment List

GCSV 18	GCSV Lab	September-05	September-05	new	AGILENT TECH 6980N	CN10528084
GCSV 19	GCSV Lab	September-05	September-05	new	AGILENT TECH 6980N	CN10534099
GCSV 20	GCSV Lab	October-05	October-05	new	AGILENT TECH 6980N	CN10534109
GCSV 21	GCSV Lab	December-05	December-05	new	AGILENT TECH 6980N	CN10538039
FUME HOOD	GCSV Lab	January-97	January-97	new	LABCONCO(#33)	301116
GCV 5	GCV Lab	February-08	February-08	new	AGILENT 6890 SERIES	US00026701
GCV 6	GCV Lab	November-05	November-05	new	AGILENT 6890N SERIES	CN10538061
GCV 7	GCV Lab	April-07	April-07	new	AGILENT 6890N SERIES	CN10545063
GCV 8	GCV Lab	April-08	April-08	new	AGILENT 6890N SERIES	CN10636089
GCV9	GCV Lab	March-05	June-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	new	TEKMAR	BETA 005
PURGE/TRAP INSTRUMENT 7	GCV Lab	April-07	April-07	new	TELEDYNE TEKMAR XPT / 14-8900O0T	US0527002
PURGE/TRAP INSTRUMENT 9	GCV Lab	March-05	June-10	new	TELEDYNE TEKMAR XPT	US0507010
AUTOSAMPLER INSTRUMENT 5	GCV Lab	February-08	February-08	new	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-11	March-11	new	Frigidaire (#43)	KA03300793
REFRIGERATOR	GCSV Lab	January-97	January-97	new	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	new	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	N/A
HPLC - 2	MSSV Lab	December-06	December-06	new	AGILENT 1200 SERIES - MWD	DE60555127
	MSSV Lab	December-06	December-06	new	AGILENT 1200 SERIES - FLD	DE60555722
	MSSV Lab	December-06	December-06	new	AGILENT 1200 SERIES - TCC	DE63060177
	MSSV Lab	December-06	December-06	new	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		new	Agilent ASX-500	US071080A520
ICP	Metals Lab	September-05	September-05	new	PERKIN-ELMER OPTIMA 4300DV	077N0050202
AUTOSAMPLER	Metals Lab	September-05	September-05	new	PERKIN-ELMER AS93 Plus	N/A
ICP	Metals Lab	May-00	May-00	new	PERKIN-ELMER 5300DV	077N5090602
GFAA 2	Metals Lab	January-09	January-09	used	PERKIN-ELMER 800	8411

GCAL Equipment List

GFAA Autosampler	Metals Lab	January-09	January-09	used	PERKIN-ELMER AS800	1852
GFAA Chiller	Metals Lab	January-09	January-09	used	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	new	FS3100BKFVA	11-j-07-15
METALS PREP	**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	January-97	January-97	new	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	N/A	N/A
GLASS WASHER	EXT Area	January-97	January-97	new	AMSCO 400	36911195001
SHAKER (4)	EXT Area	January-97	January-97	new	GLAS-COL 099A	N/A
MILLIPORE(2)	EXT Area	January-97	January-97	new	N/A	N/A
VACUUM PUMP	EXT Area	May-08	May-08	new	Edwards	76434563
GPC (1)	EXT Area	January-97	January-97	new	ABC AP-100	9161SI/AS007-9114-9114
CENTRIFUGE	EXT Area	January-97	January-97	new	IEC HN-SII	N/A
OVEN	EXT Area	January-97	January-97	new	FISHER ISOTEMP 655G	11000184
TCLP/ZHE ROTATOR	EXT Area	January-97	January-97	new	ASSOCIATED DESIGN	NA 05101808
ZHE EXTRACTORS	EXT Area	January-97	January-97	new	ENVIRONMENTAL EXPRESS	NA 05081684
SONICATOR (6)	EXT Area	January-97	January-97	new	FISHER SCIENTIFIC	[illegible]
INCUBATOR SHAKER	EXT Area	January-97	January-97	new	NEW BRUNSWICK SCIENTIFIC/CLASSIC SE	100524881
BALANCE	EXT Area	January-97	January-97	new	METTLER PM 3000	M33557
BALANCE	EXT Area	January-97	January-97	new	METTLER PG 3001 S	1117331005
BALANCE	EXT Area	January-97	January-97	new	AND FX-300	5015502
BALANCE	EXT Area	January-97	January-97	new	OHAUS SCOUT PRO SP2001	7124330243
BALANCE	EXT Area	January-97	January-97	new	OHAUS SCOUT PRO SP402	7124280031
BALANCE	EXT Area	January-97	January-97	new	OHAUS SCOUT PRO SPE4001	7123450167
BALANCE	EXT Area	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
PH METER	EXT Area	January-97	January-97	new	ORION 720A+	089622
PH PROBE 01/ATC PROBE	EXT Area	January-97	January-97	new	ORION SURE-FLOW ROSS 8172BNWP	LYI-16730
PH PROBE 03/ATC PROBE	EXT Area	January-97	January-97	new	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	new	TRUE (#5)	1334961
REFRIG/FREEZER	EXT Area	January-97	January-97	new	WHITE WESTINGHOUSE (#8)	LA10903763
REFRIG/FREEZER	EXT Area	January-97	January-97	new	WHITE WESTINGHOUSE (#9)	BA04391056
REFRIG/FREEZER	EXT Area	January-97	January-97	new	Frigadaire (R#34)	BA61019273
FREEZER	EXT Area	January-97	January-97	new	WHITE WESTINGHOUSE (#23)	WB40802629
ULTRASONIC CLEANER	EXT Area	January-97	January-97	new	FISHER SCIENTIFIC/FS30	RTB040265340

GCAL Equipment List

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	January-97	January-97	new	METTLER TOLEDO DL53	S119484414
VISCOMETER	Wet Chemistry	January-97	January-97	new	BROOKFIELD DVII	32587
WATER BATH	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 1	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	January-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	Tuttnauer	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	January-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

GCAL Equipment List

OVEN	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC ISOTEMP/MODEL 650G	508N0137
FURNACE	EXT area	January-97	January-97	new	THERMOLYNE 1500	N/A
DESSICATORS (7)	Wet Chemistry	January-97	January-97	new	DRY KEEPER	N/A
INCUBATOR	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC(#3)	WB93928030
BALANCE	Wet Chemistry	January-97	January-97	new	METTLER AE160	C05693
BALANCE	Wet Chemistry	January-97	January-97	new	METTLER AX504	1122043050
BALANCE	Wet Chemistry	January-97	January-97	new	SARTORIUS / PT6-000V2	60802675
BALANCE	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC / ACCU-224	F224075004
FUME HOODS (5)	Wet Chemistry	January-97	January-97	new	N/A	N/A
INCUBATOR (BOD#6)	Wet Chemistry	January-97	January-97	new	REVCO	T28C-142152-TC
INCUBATOR (BOD#2)	Wet Chemistry	January-97	January-97	new	PRECISION SCIENTIFIC	10AZ-12
INCUBATOR (BOD#7)	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	407N0211
INCUBATOR (BOD#5)	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	WB93928030
INCUBATOR (BOD#8)	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	WB53337398
INCUBATOR (BOD#9)	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	2018080398339
INCUBATOR (BOD#10)	Wet Chemistry	January-97	January-97	new	FISHER SCIENTIFIC	2018080607337
REFRIG/FREEZER	Wet Chemistry	January-97	January-97	new	SEARS (#19)	LA91905856
REFRIG/FREEZER	Wet Chemistry	January-97	January-97	new	WHITE WESTINGHOUSE (#1)	WB10507478
VACUUM PUMP	EXT Area	May-08	May-08	new	Edwards	7643558
GRINDING MILL	Wet Chemistry	January-97	January-97	new	THE STRAUB CO./MODEL 4E	N/A
LOG-IN	**Location**	**Date Received**	**Date in Service**	**Condition**	**MAKE/MODEL**	**SERIAL NUMBER**
FUME HOOD (1)	LOGIN Area	January-97	January-97	new	FUME HOOD #9	N/A
COOLER	LOGIN Area	January-97	January-97	new	TRUE (#2)	708391
COOLER	LOGIN Area	January-97	January-97	new	TRUE (#3)/GDM-72	1-3792963
WALK-IN COOLER (2)	LOGIN Area	January-97	January-97	new	N/A	N/A
REFRIG/FREEZER	LOGIN Area	January-97	January-97	new	KENMORE (#4)	BA01902878
IR THERMOMETER	LOGIN Area	May-08	May-08	new	FISHER SCIENTIFIC	72704761
REFRIG/FREEZER	LOGIN Area	January-97	January-97	new	FRIDGIDAIRE (#33)	BA454622395
FREEZER	LOGIN Area	January-97	January-97	new	FRIGIDAIRE(#27) MFU17F3GW6	WB03102969
SCANNER	LOGIN Area	January-97	January-97	new	HEWLETT PACKARD SCANJET 5470C/C9850	CN1B41HOTZ
FREEZER	LOGIN Area	January-97	January-97	new	FRIGIDAIRE (#28) FFU20FC4CWO	WB34937210
FREEZER	LOGIN Area	January-97	January-97	new	FRIGIDAIRE (#29) FFC15C4CWO	WB40427812

D H E C

PROMOTE PROTECT PROSPER

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 Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan***				
B. Tax Map		x	$50.00	$0.00
C. Tier II or Comp. Plan /QAPP Appendix B	1	x	$525.00	$525.00
2. **Receptor Survey ***		x	$500.00	$0.00
3. **Survey (500 x 500 feet)**				
A. Comprehensive Survey		x	$1,000.00	$0.00
B. Subsurface Geophysical Survey				
1. < 10 meters below grade		x	$2,750.00	$0.00
2. > 10 meters below grade		x	$3,250.00	$0.00
C. Geophysical UST or Drum Survey		x	$1,125.00	$0.00
4. **Mob/Demob (Each)**				
A. Equipment		x	$575.00	$0.00
B. Personnel	1	x	$290.00	$290.00
C. Adverse Terrain Vehicle to install wells		x	$575.00	$0.00
5. **Soil Borings (hand auger)* (Feet)**		feet x	$14.00	$0.00
6. **Soil Borings (drilled) & Field Screening ***				
Rate includes collection of water sample or soil sample, and lab or other analyses				
A. Standard		feet x	$17.00	$0.00
C. Fractured Rock		feet x	$27.50	$0.00
7. **Soil Leachability Model (Each)**		each x	$200.00	$0.00
8. **Abandonment* (per foot)**				
A. 2" diameter or less		feet x	$5.00	$0.00
B. Greater than 2" to 6" diameter		feet x	$5.50	$0.00
C. Dug/Bored well (up to 6 foot diameter)		feet x	$18.00	$0.00
9. **Well Installation* (per foot)**				
A. Water Table (hand augered)		feet x	$20.00	$0.00
B. Water Table (drill rig)		feet x	$38.00	$0.00
C. Telescoping/ Pit Cased		feet x	$58.00	$0.00
D. Rock Drilling		feet x	$58.00	$0.00
E. 2" Rock Coring		feet x	$45.00	$0.00
G. Rock Multi-sampling ports/screens		feet x	$47.20	$0.00
H. Recovery Well (4 inch diameter)		each x	$45.00	$0.00
I. Pushed Pre-packed screen (1.25 diameter)		each x	$18.50	$0.00
J. Rotosonic (2 inch diameter)		each x	$45.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**				
A. Groundwater Purge	4	wells x	$55.00	$220.00
B. Air or Vapors		samples x	$90.00	$0.00
C. Water Supply		samples x	$30.00	$0.00
D. Groundwater No Purge, SW (2), or Dup (1)	3	samples x	$35.00	$105.00
E. Gauge Well only		per well x	$20.00	$0.00
F. Sample Below Product		wells x	$50.00	$0.00
G. Pasive Diffusion Bag		each x	$40.00	$0.00
H. Field Blank	1	each x	$5.00	$5.00

11. Laboratory Analyses-Groundwater (Each Sample)				
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		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*				
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				
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*		x	$300.00	$0.00
17. Disposal* (gallons or tons)				
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)				
		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)		x		$0.00
22. Corrective Action (Use DHEC 3667 form)		x		$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A. 8-hour Event*		each	x	$3,000.00	$0.00
B. AFVR per-hour Continuance		per hour	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 installation & service:**					
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, & refurbishment*		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
I. 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%	x		$2,657.00	$398.55
TOTAL					$3,055.55

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

D H E C

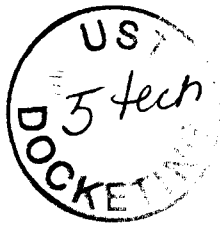
PROMOTE PROTECT PROSPER

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 15 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 _____ Date 10/31/13

SC DHEC Project Manager Signature

Jason A. Terry _____ Date 10/24/13

Contractor QA Officer Signature

Kelly K. Cone _____ Date 10/24/13

Site Rehabilitation Contractor Signature

Ashley Amick _____ Date 10/24/13

Access Analytical Laboratory Director Signature

Scott Bailey _____ 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	Amount
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 ☐ Email

Date Received 1-13-14

Permit Number 3-02314

Project Manager Minda

Name of Contractor TES

UST Certification Number UCC-0223

Docket Number 6 tech

Scanned _____

GW monitoring 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:

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UST CONTRACTOR #UCC-0223
TERRY PROJECT #2171.9

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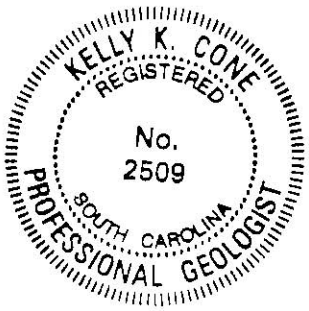
Jason A. Terry, PG
President



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
Certification:	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 SCDHEC UST PERMIT #02314							
02314-MW1	**12/9/2013**						
	Free Product (3.34 ft.)						
02314-MW2	**12/9/2013**						
	Could Not Find						
02314-MW3	**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 PROJECT #2171.9

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
02314-MW1	3/19/1997	100.00	10 to 20	13.70	n/a	n/a	86.30
	6/17/1997			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	10 to 20	16.04	n/a	n/a	84.02
	12/9/2013			Could Not Find			
02314-MW3	6/17/1997	97.54	10 to 20	13.64	n/a	n/a	83.90
	12/9/2013			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
	12/9/2013			18.80	16.91	**1.89**	82.30**

Notes:

All Data Prior to December 2013 collected by others

[(1)] TOC = Top of casing relative to an assumed data

* = Measured relative to TOC

n/a = Not applicable

**Corrected Elevation calculated using following equation:

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

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**
02314-MW1	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	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (3.34 ft.)																
02314-MW2	6/17/1997	**29**	1.25	1.13	136.1	5.5	13.7	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Could Not Find																
02314-MW3	6/17/1997	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (1.89 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-TB	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

NOTES/KEY:

-- = Not tested; not analyzed
RBSL = Risk-Based Screening Level
ug/L = micrograms per liter
mg/L = milligrams per liter
J = Estimated value
FB = Field Blank
TB = Trip Blank
Bold 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-Dibromoethane
1,2-DCA = 1,2-Dichloroethane
TAME = t-amyl methyl ether or tert-Amyl methyl ether
TBA = t-Butanol 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-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

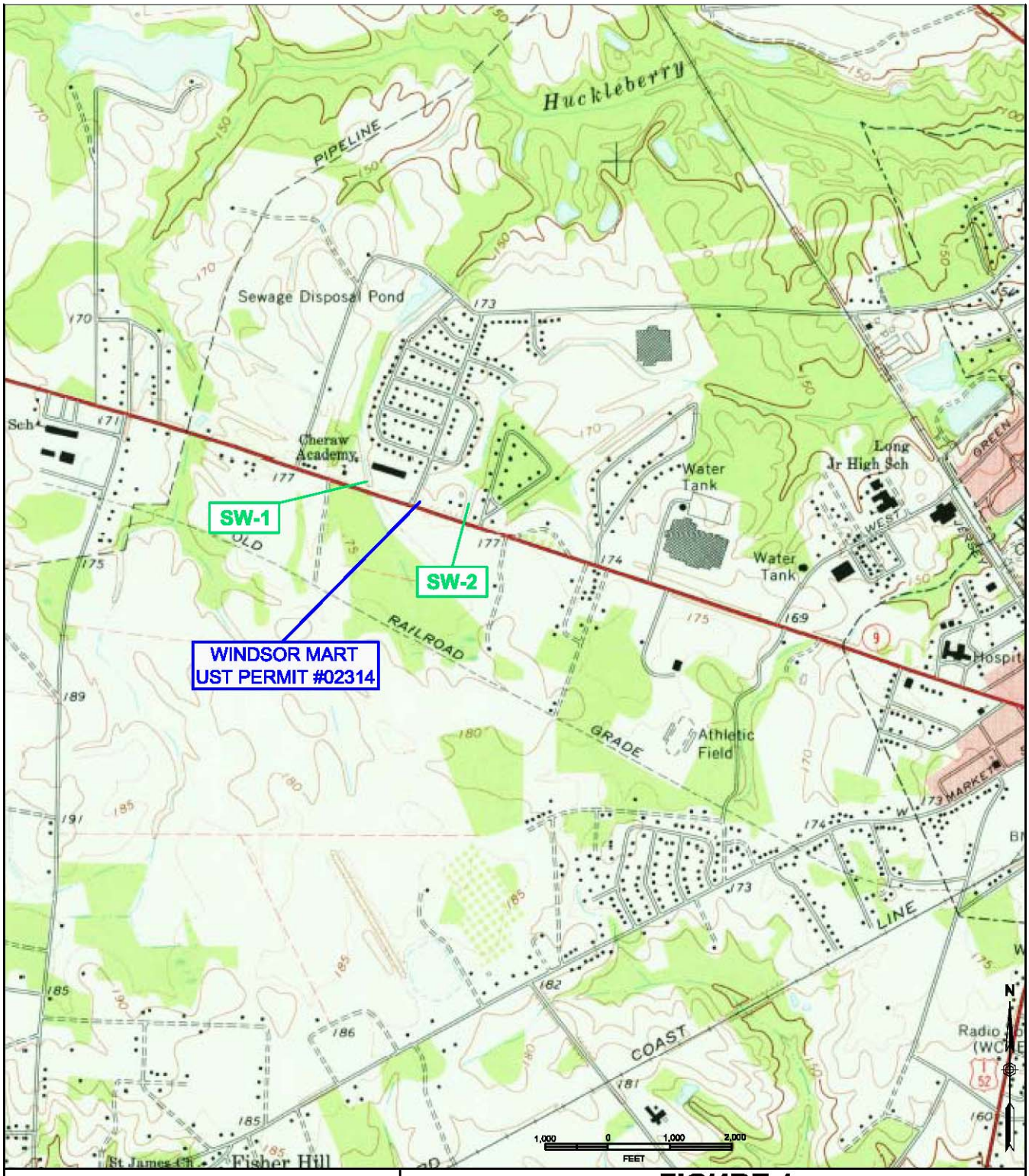

FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
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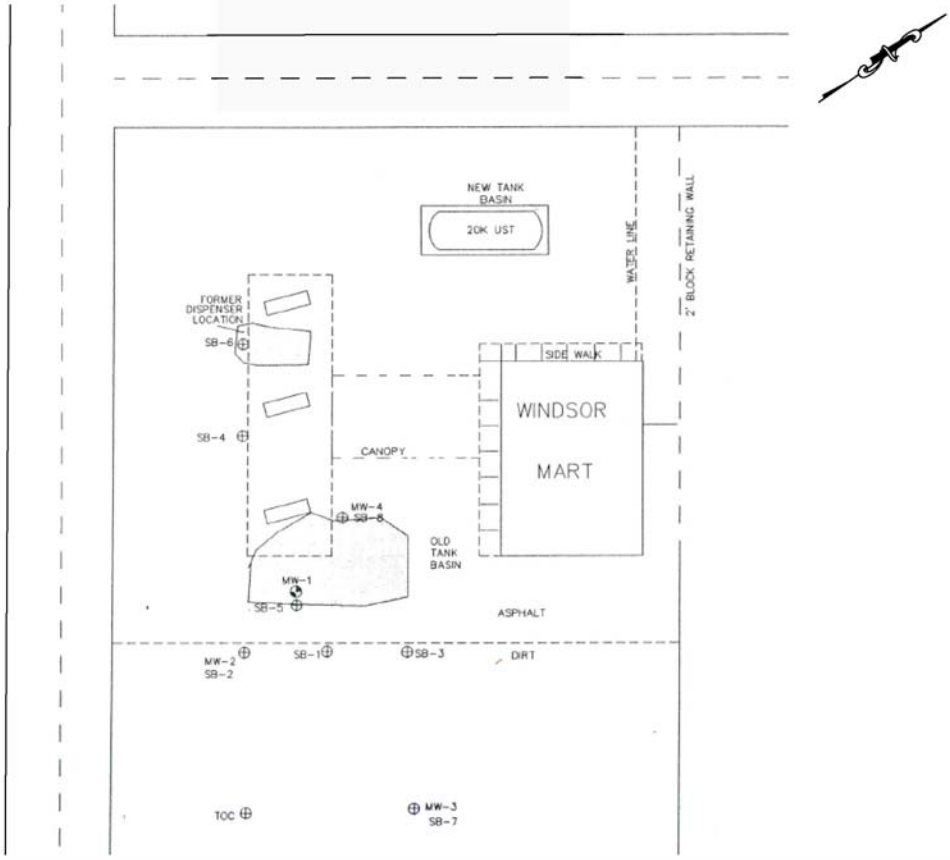
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9	Figure 1 Topo Map	

SCALE: As Shown

DATE: January 2014



LEGEND & ABBREVIATIONS:

⊕ MW = MONITORING WELL

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW1)

0 20'

1" = 20'

Notes:
1) This figure was adapted from previous work performed by other companies and is presented here for illustrative purposes only. TERRY does not certify the accuracy of this figure.
2) Certain aspects of this figure may have been produced in color. Reproduction without color may not yield the intended information.

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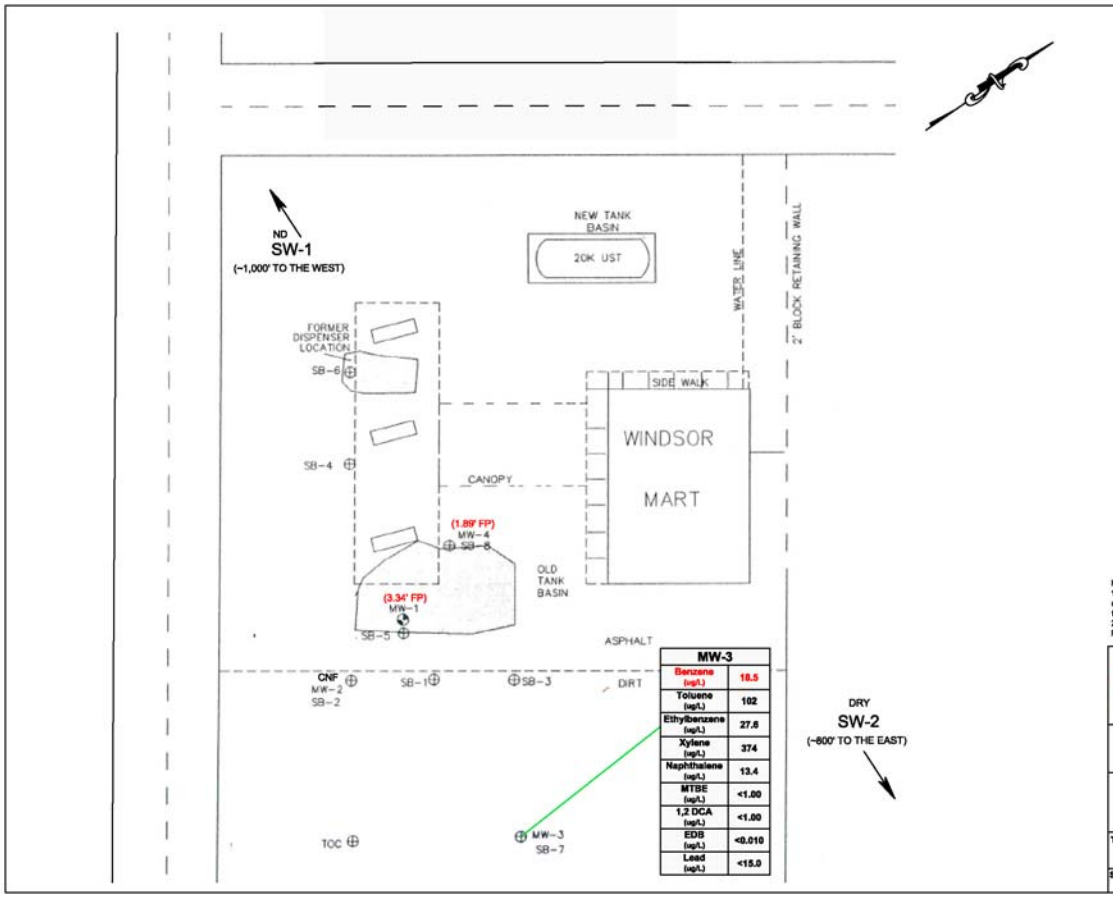
FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9	02314
SCALE: As Shown	DATE: January 2014



MW-3	
Benzene (ug/L)	18.5
Toluene (ug/L)	102
Ethylbenzene (ug/L)	27.6
Xylene (ug/L)	374
Naphthalene (ug/L)	13.4
MTBE (ug/L)	<1.00
1,2 DCA (ug/L)	<1.00
EDB (ug/L)	<0.010
Lead (ug/L)	<15.0

LEGEND & ABBREVIATIONS:

MW = MONITORING WELL
FP = FREE PRODUCT (FT)
CNF = COULD NOT FIND
MTBE = tert-BUTYL METHYL ETHER
1,2 DCA = 1,2-DICHLOROETHANE
EDB = 1,2-DIBROMOETHANE

ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

SAMPLES COLLECTED ON DECEMBER 9, 2013.

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW1)

0 20'
1" = 20'

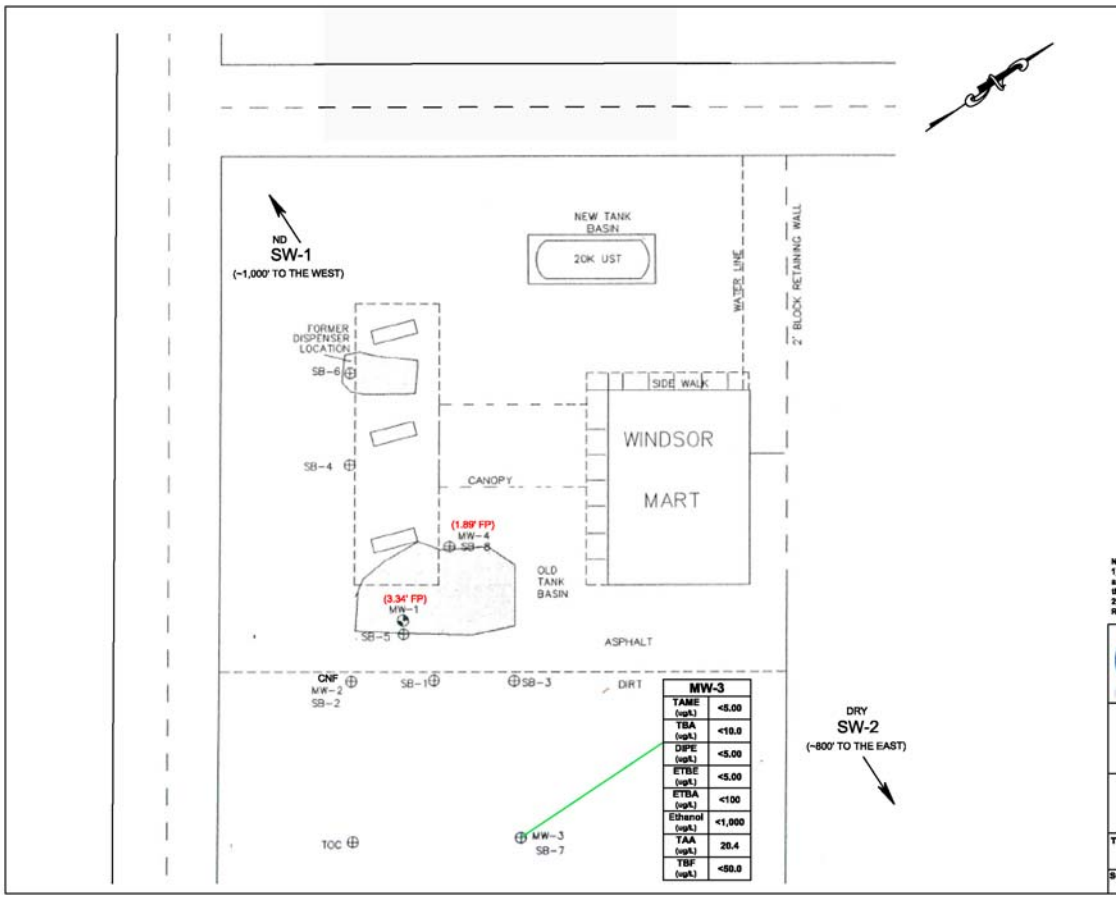
Notes:
1) This figure was adapted from previous work performed by other companies and is presented here for illustrative purposes only. TERRY does not certify the accuracy of this figure.
2) Certain aspects of this figure may have been produced in color. Reproduction without color may not yield the intended information.

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 4A
GROUNDWATER COC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9	02314
SCALE: As Shown	DATE: January 2014



MW-3	
TAME (ug/L)	<5.00
TBA (ug/L)	<10.0
DIPE (ug/L)	<5.00
ETBE (ug/L)	<5.00
ETBA (ug/L)	<100
Ethanol (ug/L)	<1,000
TAA (ug/L)	20.4
TBF (ug/L)	<50.0

LEGEND & ABBREVIATIONS:

- MW = MONITORING WELL
- FP = FREE PRODUCT (FT)
- CNF = COULD NOT FIND
- TAME = TERT-AMYL METHYL ETHER
- TBA = TERT-BUTYL ALCOHOL or T-BUTANOL
- DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER
- ETBE = ETHYL TERT-BUTYL ETHER
- ETBA = 3,3-DIMETHYL-1-BUTANOL OR ETHYL-TERT-BUTANOL
- TAA = TERT-AMYL ALCOHOL
- TBF = TERT-BUTYL FORMATE

ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

SAMPLES COLLECTED ON DECEMBER 9, 2013.

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW1)

0 20'
1" = 20'

Notes:
1) This figure was adapted from previous work performed by other companies and is presented here for illustrative purposes only. TERRY does not certify the accuracy of this figure.
2) Certain aspects of this figure may have been produced in color. Reproduction without color may not yield the intended information.

TERRY ENVIRONMENTAL SERVICES
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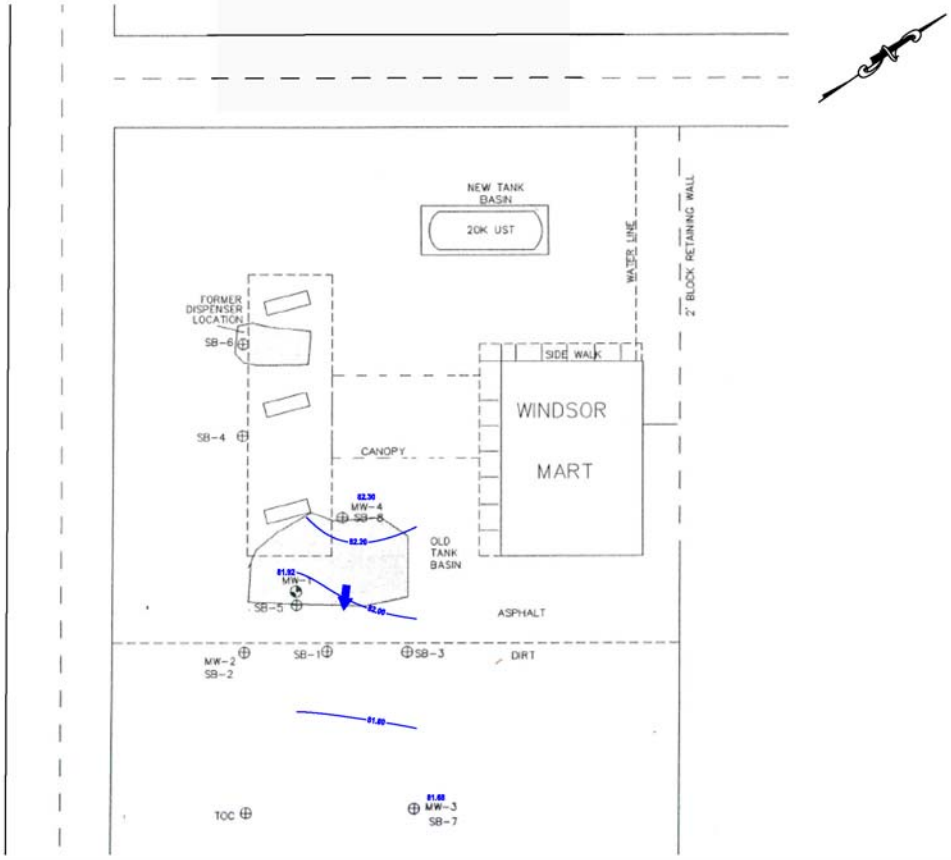
FIGURE 4B
GROUNDWATER COC MAP (OXYGENATES)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9	02314
SCALE: As Shown	DATE: January 2014



LEGEND & ABBREVIATIONS:

- MW = MONITORING WELL
- 81.92 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)
- ~82.20~ GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED ON DECEMBER 9, 2013.

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW1)

0 20'

1" = 20'

Notes:
1) This figure was adapted from previous work performed by other companies and is presented here for illustrative purposes only. TERRY does not certify the accuracy of this figure.
2) Certain aspects of this figure may have been produced in color. Reproduction without color may not yield the intended information.

TERRY ENVIRONMENTAL SERVICES
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FIGURE 5
SITE POTENTIOMETRIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9	02314
SCALE: As Shown	DATE: January 2014

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

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	12/9/2013
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	55

Monitoring Well Information

Well ID	02314 - MW1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, EDB, & Lead

Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	—	ft
Depth to Groundwater (nearest 0.01')	20.65	ft
Length of Water Column	—	ft
1 Casing Volume (0.163)	—	ft
3 Casing Volumes (0.489)	—	gals
Total Volume Purged	—	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

—

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1320	Last Verification √ (time)	—

Volume (gal)	Initial									
Time (military)										
pH (su)			No Sample,	Free	Product					
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DTP 17.31
DTW 20.65
DIFF 3.34

Dark Brown, Transparent

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	12 / 9 /2013
Field Personnel	SK
General Weather	Cloudy
Ambient Air Temperature	55

Monitoring Well Information

Well ID	02314 - MW2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1320	Last Verification √ (time)	—

Volume (gal)	Initial										
Time (military)											
pH (su)				CNF							
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

CNF.

Assumed Parcel Over

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	12/9/2013
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	55

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1320	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW3		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, EDB, & Lead		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')	20.0	ft	20.0
Depth to Groundwater (nearest 0.01')	15.86	ft	
Length of Water Column	4.14	ft	
1 Casing Volume (0.163)	0.67	ft	
3 Casing Volumes (0.489)	2.01	gals	
Total Volume Purged	2.25	gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☒ High ☐		

Volume (gal)	Initial	0.75	1.5	2.25							
Time (military)	1335	1337	1339	1341							
pH (su)	3.69	4.36	4.39	4.38							
Spec Conductivity (mS/cm)	0.178	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							

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	12 / 9 /2013
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	55

Monitoring Well Information

Well ID	02314 - MW4
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, EDB, & Lead

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')	—	ft	
Depth to Groundwater (nearest 0.01')	18.8	ft	
Length of Water Column	—	ft	
1 Casing Volume (0.163)	—	ft	
3 Casing Volumes (0.489)	—	gals	
Total Volume Purged	—	gals	
Purge Technique Utilized (bailer, pump)			—
Well Yield	Low ☐	Medium ☐	High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1320	Last Verification √ (time)	—

Volume (gal)	Initial								
Time (military)									
pH (su)			Free Product, No Sample						
Spec Conductivity (mS/cm)									
Water Temperature (°C)									
Turbidity (NTU)									
Dissolved Oxygen (mg/L)									

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DTP 16.98
DTW 18.80
DIFF 1.82

Light Brown, Transparent

Groundwater Sampling Log

TERRY Environmental Services
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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	12 / 9 /2013
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	55

Monitoring Well Information

Well ID	02314 - SW1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, EDB, & Lead

Well Diameter	—	in
Screened Interval	—	ft
Total Well Depth (nearest 0.1')	—	ft
Depth to Groundwater (nearest 0.01')	—	ft
Length of Water Column	—	ft
1 Casing Volume (0.163)	—	ft
3 Casing Volumes (0.489)	—	gals
Total Volume Purged	—	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1320	Last Verification √ (time)	—

Purge Technique Utilized (bailer, pump) ✓

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	Initial	/	sample
Time (military)	1500	/	sample
pH (su)	5.40	/	sample
Spec Conductivity (mS/cm)	0.051	/	sample
Water Temperature (°C)	11.7	/	sample
Turbidity (NTU)	16.1	/	sample
Dissolved Oxygen (mg/L)	6.26	/	sample

Well Condition Information

-overall condition acceptable?	y SW
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	12 / 9 /2013
Field Personnel	SK
General Weather	Cloudy
Ambient Air Temperature	55°

Monitoring Well Information

Well ID	02314 - SW 2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	—	in
Screened Interval	—	ft
Total Well Depth (nearest 0.1')	—	ft
Depth to Groundwater (nearest 0.01')	—	ft
Length of Water Column	—	ft
1 Casing Volume (0.163)	—	ft
3 Casing Volumes (0.489)	—	gals
Total Volume Purged	/	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1320	Last Verification √ (time)	—

Purge Technique Utilized (bailer, pump) /

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	Initial										
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable? SW
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

No Sample - Ditch Dry

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Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 12.9.13/1320 **Inspector:** JC

Solution Manufacturer: Aurical **Lot Number:** 42324-16 **Expiration Date:** 11/15

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	3.96	± 0.04
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0.1 NTU	± 0.1 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	15.3°C	15.3 °C	± 0.0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Windsor Mark / 2171.9

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 12.9.13 / ~~1530~~ 1515 **Inspector:** JK

Solution Manufacturer: Aurical **Lot Number:** 42324-16 **Expiration Date:** 11/15

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.01	± 0.01
Conductivity: 4.49 mS/cm	4.52 mS/cm	± 0.03 mS/cm
Turbidity: 0.0 NTU	0.2 NTU	± 0.2 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	15.4 °C	15.4 °C	± 0.0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Windsor Mart / 2171.9

ACCESS
ANALYTICAL, INC.

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

Authorized Signature

Secondary Data Review By

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

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI 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.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER L13-190

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
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.

Karen Melching/Ma Data Del

Authorized Signature
GCAL REPORT 213121052

THIS REPORT CONTAINS 19 PAGES.

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	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

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	Receive 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	Receive 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	Analyzed	By	Analytical Batch
			1	12/13/2013 05:41	AMD	521854

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 (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	% Recovery	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	Analyzed	By	Analytical Batch
			1	12/13/2013 05:41	JCK	521853

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)**	**20.4**	**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	% Recovery	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	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
12/13/2013 06:30	521653	EPA 8011	1	12/17/2013 15:19	DLB	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
21312105201	**02314-MW3**	Water	12/09/2013 13:41	12/10/2013 11:20

EPA 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
12/11/2013 10:20	521676	EPA 3010A	1	12/13/2013 12:52	AWG	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	Analyzed	By	Analytical Batch
			1	12/13/2013 06:04	JCK	521854

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 (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	% 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	Analyzed	By	Analytical Batch
			1	12/13/2013 06:04	AMD	521853

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	% 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 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
12/13/2013 06:30	521653	EPA 8011	1	12/17/2013 15:37	DLB	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	Analyzed	By	Analytical Batch
			1	12/13/2013 06:26	AMD	521854

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 (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	% 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 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	12/13/2013 06:26	JCK	521853

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)**	**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	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
12/13/2013 06:30	521653	EPA 8011	1	12/17/2013 15:55	DLB	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 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
12/11/2013 10:20	521676	EPA 3010A	1	12/13/2013 12:58	AWG	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	Analyzed	By	Analytical Batch
			1	12/13/2013 06:48	JCK	521854

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 (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	% 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	Analyzed	By	Analytical Batch
			1	12/13/2013 06:48	AMD	521853

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	% 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 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
12/13/2013 06:30	521653	EPA 8011	1	12/17/2013 16:13	DLB	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
21312105205	**02314-TB**	Water	12/09/2013 00:00	12/10/2013 11:20

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	12/13/2013 07:11	JCK	521854

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 (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	% Recovery	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	Analyzed	By	Analytical Batch
			1	12/13/2013 07:11	JCK	521853

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)**	**7.41J**	**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	% Recovery	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

GC/MS Volatiles Quality Control Summary

Analytical Batch 521854	Client ID	MB521854			LCS521854			LCSD521854			
Prep Batch N/A	GCAL ID	1265337			1265338			1265339			
	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 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
107-06-2	1,2-Dichloroethane	<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 methyl 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											
460-00-4	4-Bromofluorobenzene	47.5	95	50	50.5	101	78 - 130	50.8	102		
1868-53-7	Dibromofluoromethane	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-Dichloroethane-d4	51.3	103	50	49.3	99	71 - 127	52.1	104		

GC/MS Volatiles Quality Control Summary

Analytical Batch	521853	Client ID	MB521853			LCS521853			LCSD521853			
Prep Batch	N/A	GCAL ID	1265334			1265335			1265336			
		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 8260B		Units	ug/L	Spike	Result		Control	Result			RPD
		Result	RDL	Added		% R	Limits % R		% R	RPD	Limit
994-05-8	t-amyl methyl 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 Ether (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-butanol (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 alcohol (TAA)	<20.0	20.0	200	208	104	50 - 150	207	104	1	50
762-75-4	tert-butyl formate (TBF)	<50.0	50.0	50.0	40.5	81	50 - 150	40.3	81	1	50
Surrogate											
460-00-4	4-Bromofluorobenzene	47.5	95	50	50.5	101	78 - 130	50.8	102		
1868-53-7	Dibromofluoromethane	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-Dichloroethane-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**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
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		
EPA 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**	
7439-92-1	Lead	<15.0	15.0	500	553	111	80 - 120	

Analytical Batch	521882	**Client ID**	MW-3			1264135MS			1264135MSD			
Prep Batch	521676	**GCAL ID**	21312105403			1264303			1264304			
Prep Method	EPA 3010A	**Sample Type**	SAMPLE			MS			MSD			
		Prep Date	12/11/2013 10:20			12/11/2013 10:20			12/11/2013 10:20			
		Analytical Date	12/13/2013 13:17			12/13/2013 13:23			12/13/2013 13:30			
		Matrix	Water			Water			Water			
EPA 6010C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
7439-92-1	Lead	174	15.0	500	739	113	80 - 120	736	113	0	20	

LAB USE ONLY

Access Analytical - Chain of Custody Record

Project Work Order #

Sales Order # | PO # | Access Quote # | Laboratory ID:

Company Name: Terry Environmental
Report To: Kelly Cone
Address: P.O. Box 25
City: Summerville State: SC Zip: 29484
Phone: 843 873 8000 Fax:
Email: kcone@terryenvironmental.com
Project ID: Windsor Mart / 2171.9
Sampled By: JK

Access Analytical, Inc.
7478 Carlisle Street
Irmo, SC 29063
Phone: (803) 781-4243
Fax: 781-4303
www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAc, 8 = H_3PO_4

*Matrix Codes (place corresponding code in matrix column): GW = ground water, WW = waste water, DW = drinking water, S = soil, SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other (specify in comments section)

*Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA = Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected:	Time Collected:	Type: (grab or composite)	Matrix: (see codes)	Program Area (see codes)	TOTAL # of containers	Preservative: (*see codes)			Container Type: (*see codes)			REQUESTED LAB ANALYSIS:
													BTEX, Naph, MTBE, 1,2 DCA, Oxygenates, Ethanol (5 Oxygenates), EDB, Lead
02314-MW3	12-9-13	1341	G	GW	UST Client DW	5	2	2	1	G	G	P	
02314-SW1		1500				4	2	2					
02314-MW3DUP		1345				5	2	2	1				
02314-FB		1310				4	2	2					
02314-TB						1	1						

NOTES / COMMENTS
(if sample is a composite please use space below to note start/finish times & dates)

1
2
3
4
5

Client ID: 4565 - Access Analytical
SDG: 213121052
Due Date: 12/17/13

Turnaround Time:
X Standard
___ RUSH*
*Date Required:_____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:
X SC
___ NC
___ Other
(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Samples Rec'd on Ice	Sample Temp. Upon Receipt (°C):	
Jennifer Kone				___Y ___N	____(°C)	____(N/A)
FEDEX	Britta Bailey	121013	1120	1 Y ___N	4.9 (°C) 5.00	____(N/A)
8753 9162 8026				___Y ___N	____(°C)	____(N/A)
				___Y ___N	____(°C)	____(N/A)

See Reverse for Terms and Conditions

Original Copy - Returned w/Report
Yellow Copy - Access File Copy
Pink Copy - Client Copy

Pg 1 of 1

GCAL
ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

213121052

SAMPLE DELIVERY GROUP 213121052	
Client 4565 - Access Analytical	**Transport Method** FEDEX
Profile Number 78455	**Received By** Law, Brittany P.
Line Item(s) 15 - Water BTEX/N/MTBE/1,2 DCA/Pb	**Receive Date(s)** 12/10/13

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Thermometer ID: E22	Temp(°C)
8753 9662 8026		4.9

DISCREPANCIES

None

LAB PRESERVATIONS

None

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, 2.75 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

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

Contractor Checklist – Windsor Mart

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X
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.

D H E C

PROMOTE PROTECT PROSPER

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

UST 1 tech DOCKETING

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

D · H E C
PROMOTE PROTECT PROSPER

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

UST
MAR 3 1 2014
PROGRAM

To: Minda Hornosky (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: Terry Environmental Services UST Contractor Certification Number: UCC-0223

Facility Name: Windsor Mart UST Permit #: 02314
Facility Address: 820 Chesterfield Highway
Responsible Party: Jackson Oil Company, Inc. Phone: 843-537-7080
RP Address: PO Box 968, Cheraw, South Carolina 29520
Property Owner (if different): n/a
Property Owner Address: n/a
Current Use of Property: Gas Station and Convenience Store (Corner Cupboard)

UST
8 tech
DOCKETING

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☐ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Soil:

- ☐ BTEXN
- ☐ PAH
- ☐ 8 RCRA Metals
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☑ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

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

2 Soil	____ Water Supply Wells	____ Air	2 Field Blank
21 Monitoring Wells	2 Surface Water	2 Duplicate	2 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: 14 Estimated Footage: 20 (280' Total) feet per point
# of deep points proposed: 3 Estimated Footage: 55 (165' Total) feet per point
Field Screening Methodology: Groundwater samples will be collected via a Geoprobe direct-push technology (DPT) rig

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: 14 Estimated Footage: 20 (280' Total) feet per point
# of deep wells: 3 Estimated Footage: 55 (165' Total) feet per point
# of recovery wells: ____ Estimated Footage: ____ feet per point
Monitoring Well development method (consistent with SOP): pump and surge
Comments, if warranted:
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.

UST Permit #: 02314 Facility Name: Windsor Mart

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: _____ Gallons

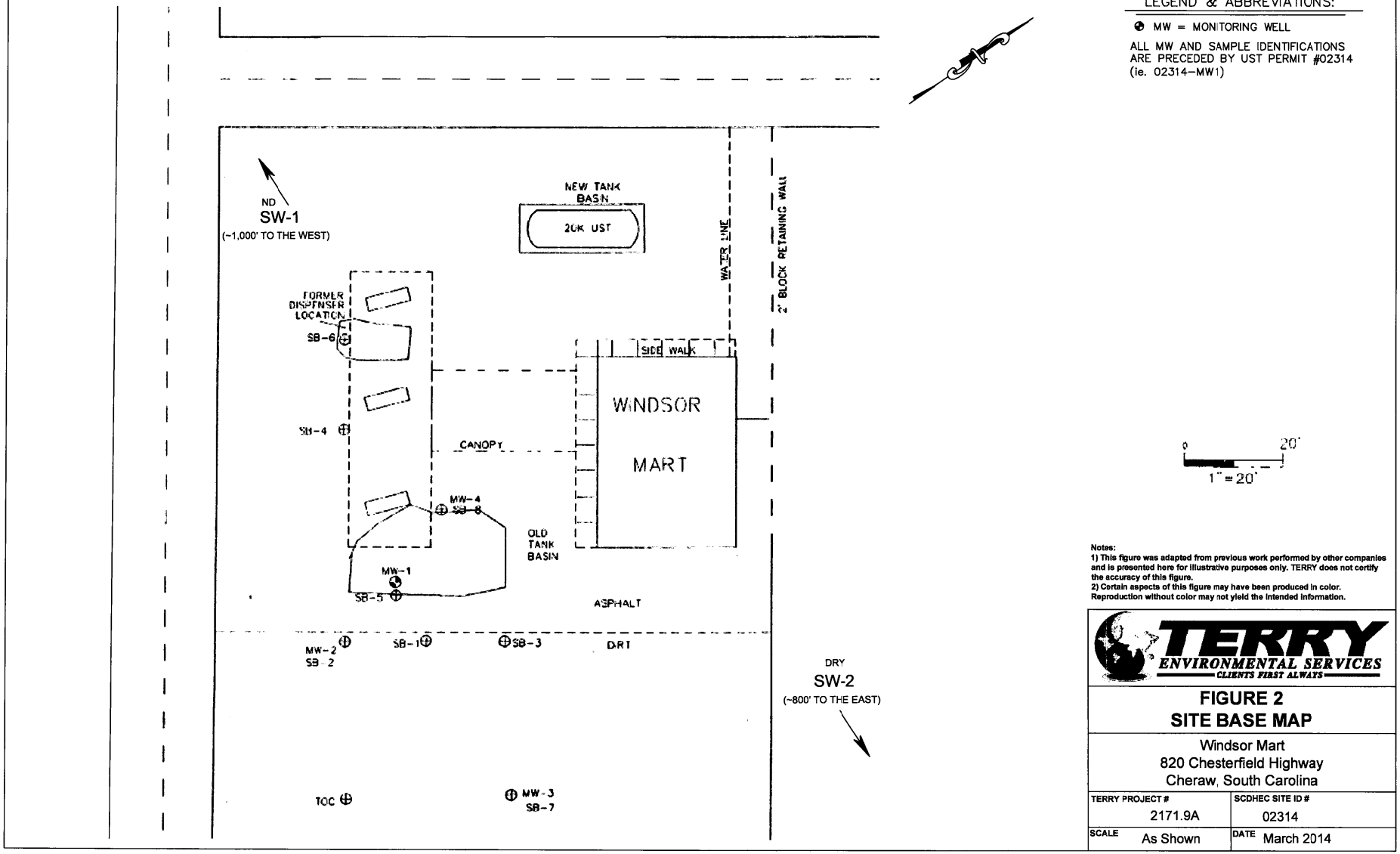
Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
This assessment will include a tax map, comprehensive survey, slug testing (2 shallow wells and 1 deep well), and comprehensive 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
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



LEGEND & ABBREVIATIONS:

⊕ MW = MONITORING WELL

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314–MW1)

0 20'

1" = 20'

Notes:
1) This figure was adapted from previous work performed by other companies and is presented here for illustrative purposes only. TERRY does not certify the accuracy of this figure.
2) Certain aspects of this figure may have been produced in color. Reproduction without color may not yield the intended information.

TERRY ENVIRONMENTAL SERVICES
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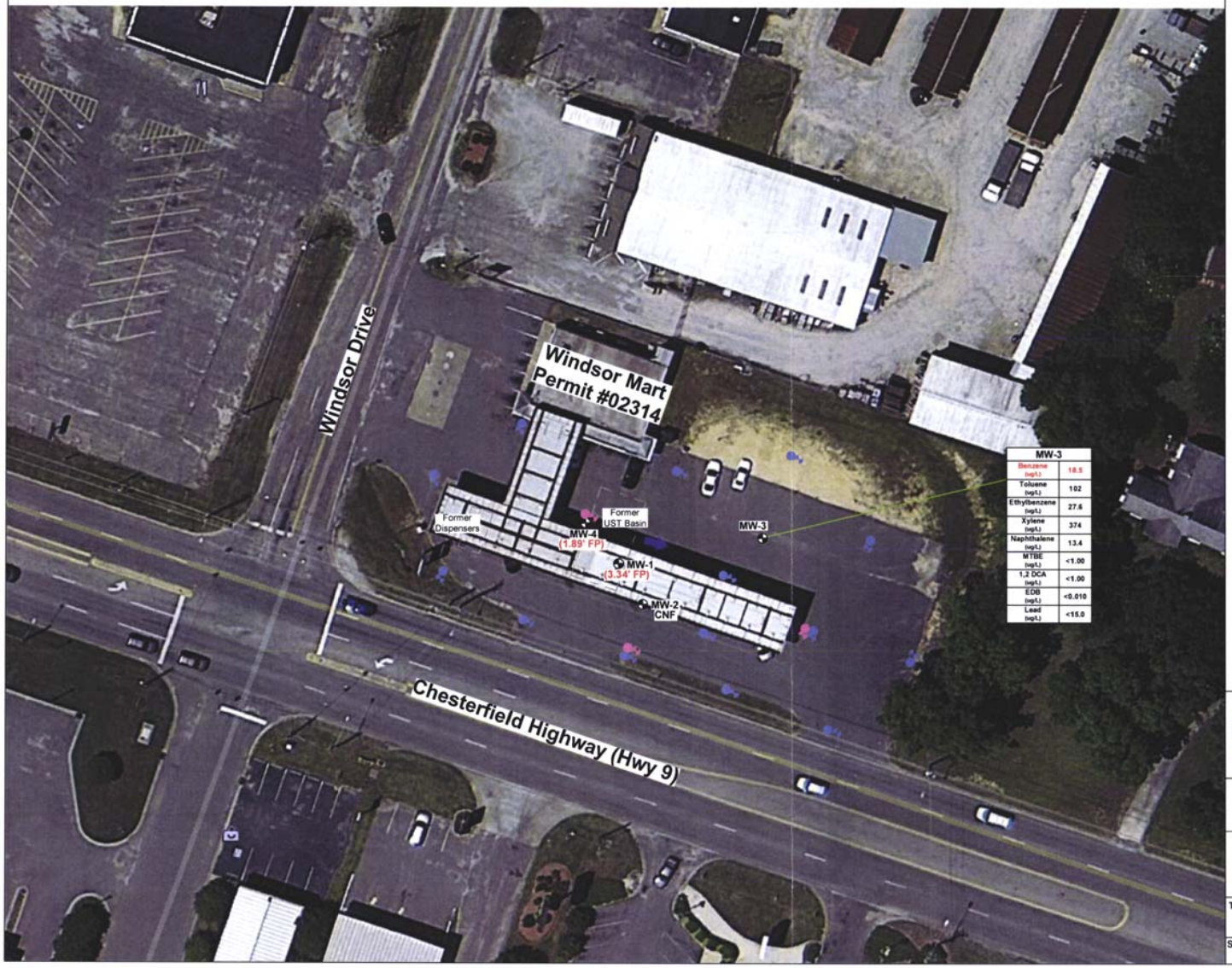
FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE: As Shown	DATE: March 2014



LEGEND & ABBREVIATIONS:

- Existing Monitoring Well
- Shallow Groundwater Boring
- Deep Groundwater Boring
- Proposed Shallow Monitoring Well
- Proposed Deep Monitoring Well
- Groundwater Flow (Dec. 9, 2013 Data)

FP = Free Product (feet)

CNF = Could Not FInd

Data Collected December 9, 2013

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

~ 50 feet

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE
TIER II PROPOSAL MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9	02314
SCALE: As Shown	DATE: March 2014

D H E C

PROMOTE PROTECT PROSPER

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 **Cost Agreement #:** 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		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 technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)*				
A1. Standard	445	per foot	$7.40	$3,293.00
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	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)*				
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)		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 Depth to Water or 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	$22.00	$0.00
D1. Groundwater NP, SW (2) or Dup (2)	4	per well/recepto	$28.00	$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	$0.00
H1. Field Blank	2	each	$24.60	$49.20

11. Laboratory Analyses-Groundwater					
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
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
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer	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			$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
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 installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Management	10%	percent	$32,575.10		$3,257.51
TOTAL					$35,832.61

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

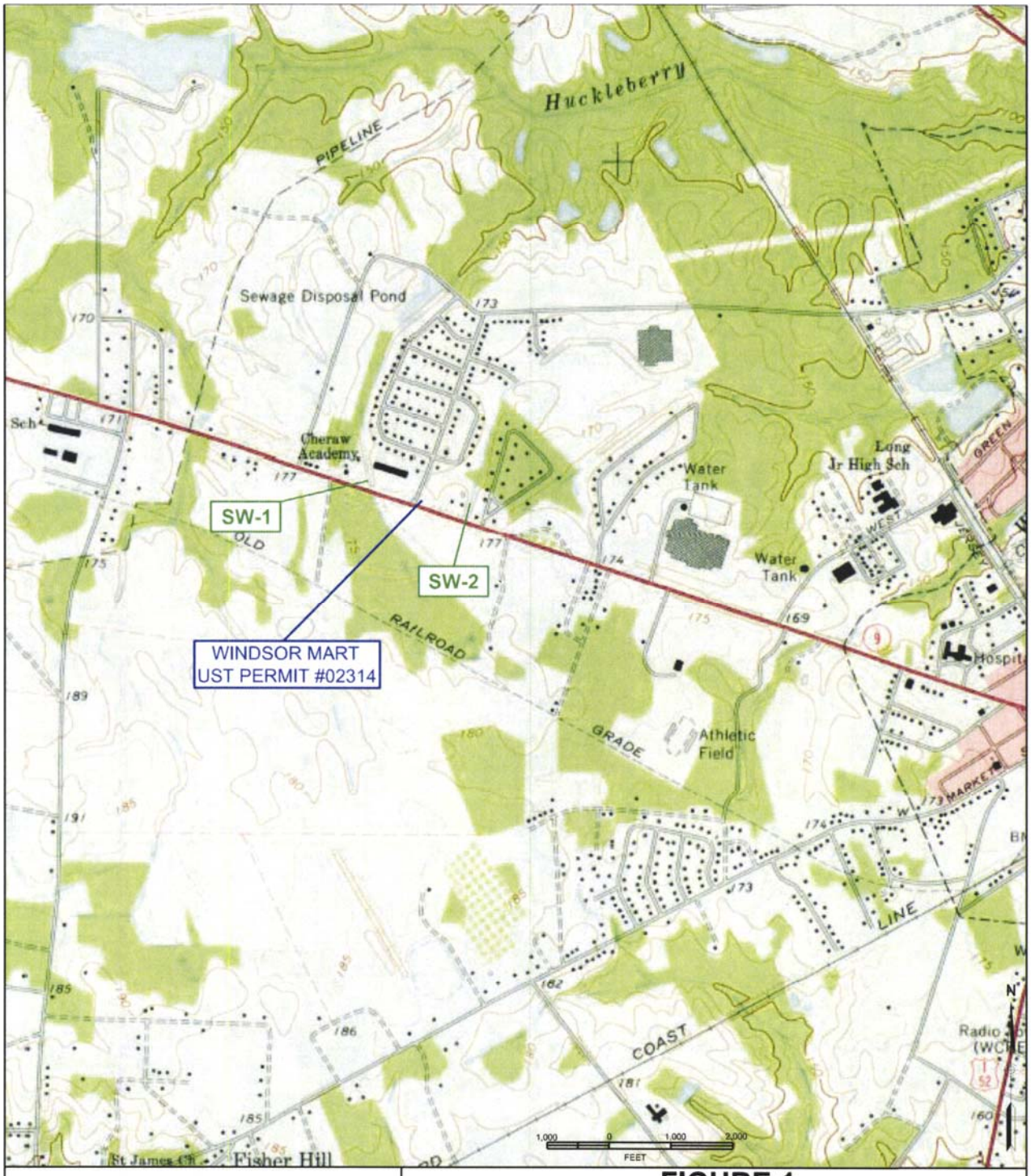


FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9A	Figure 1 Topo Map	

SCALE: As Shown

DATE: March 2014

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MAY 13 2014

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

UST 9 tech DOCKETING

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)

D H E C

PROMOTE PROTECT PROSPER

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**
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 "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the 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 **Approval #: UMW-25497**

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	Amount
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						
		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
19 RPT/PROJECT MNGT & COORDINATIO						
		PERC	REPORT PREPARATION	0.1000	32,575.10	3,257.51
				Total Amount		35,832.61

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 3-13-2015

Permit Number 02314

Project Manager Minda Hornosky

Name of Contractor Terry Environmental

UST 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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

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
Certification:	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) Geoprobe™ groundwater borings totaling 444 feet were performed using direct-push Geoprobe™ 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

Boring Number	Matrix	Total Depth (ft.)	Depth Sample Taken (ft.)	Date Performed	Field Screening Depth (ft.)	ANALYTICAL LABORATORY DATA					
						PARAMETERS					
						Benzene	Toluene	Ethyl.	Xylenes	Napth.	MTBE
						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		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 FOOTAGE**								
GW RBSL	–	–	–	–	–	**5**	**1,000**	**700**	**10,000**	**25**	**40**

NOTES:

ug/l MICROGRAMS PER LITER (PARTS PER BILLION)
J ESTIMATED RESULT < PQL AND ≥ 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**						
	Free Product (2.78 ft.)						
02314-MW2	**9/29/2014**						
	Could Not Find						
02314-MW2R	**9/29/2014**						
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			
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**						
	Free Product (0.95 ft.)						
02314-MW4	**9/26/2014**						
	Free 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**						
	Free Product (0.23 ft.)						
02314-MW8	**9/29/2014**						
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**						
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**						
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**						
Volume (gal)	Initial	0.75	1.5	2.25/Sample			
Time (military)	1440	1443	1450	1500			
pH (su)	4.71	4.67	4.62	4.64			
Spec Conductivity (mS/cm)	0.046	0.047	0.050	0.051			
Water Temperature (°C)	20.1	21.8	21.8	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**						
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			
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			
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**						
	Insufficient Volume for Parameters						

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			
02314-MW19	**11/6/2014**						
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			
Turbidity (NTU)	92.0	411	428	433			
Dissolved Oxygen (mg/L)	8.53	7.14	6.29	5.83			
02314-MW23	**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			
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			
Dissolved Oxygen (mg/L)	3.06	4.76	5.35	8.49			

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**						
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	0.222
Water Temperature (°C)	21.6	20.8	20.7	20.6	20.4	20.4	20.4
Turbidity (NTU)	390	85.9	77.6	54.2	47.0	43.9	44.1
Dissolved Oxygen (mg/L)	10.60	3.12	5.90	4.87	2.15	2.67	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)						
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:
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, 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:

$$V=Ki/n$$

$$V=(0.0631 \text{ ft/day})(0.0028 \text{ ft/ft})/.25$$

$$V= 0.00071 \text{ ft/day or } 0.026 \text{ ft/year}$$

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
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-MW1	3/19/1997	173.28	10 to 20	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
	9/26/2014			19.60	16.82	**2.78**	153.68
	2/2/2015			Free Product (1.20 ft)			
02314-MW2	6/17/1997	100.06	10 to 20	16.04	n/a	n/a	84.02
	12/9/2013			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
02314-MW3	6/17/1997	171.43	10 to 20	13.64	n/a	n/a	157.79
	12/9/2013			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)			
02314-MW4	6/17/1997	173.39	10 to 20	15.75	n/a	n/a	157.64
	12/9/2013			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			17.10	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			16.55	n/a	n/a	158.02
02314-MW7	9/29/2014	174.20	10.3 to 20.3	18.09	17.86	**0.23**	156.11
	2/2/2015			Free Product (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
	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			15.15	n/a	n/a	157.73
02314-MW15	9/29/2014	173.85	10.3 to 20.3	17.90	n/a	n/a	155.95
	2/2/2015			15.85	n/a	n/a	158.00
02314-MW16	11/19/2014	176.97	16.0 to 26.0	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
[(1)] TOC = Top of casing relative to an assumed data
* = Measured relative to TOC

**Corrected Elevation calculated using following equation:
Corrected elevation = Water table elevation + [(0.77)(free product thickness)]

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9A
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**
02314-MW1	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	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (3.34 ft.)																
	9/26/2014	Free Product (2.78 ft.)																
02314-MW2	6/17/1997	**29**	1.25	1.13	136.1	5.5	13.7	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Could Not Find																
	9/29/2014	Could Not Find																
02314-MW2R	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(DUP)	9/29/2014	**6,300**	**18,000**	**1,700**	8,900	**320**	<200	<200	--	--	<2,000	<4,000	100J	<200	<4,000	<20,000	**7,000**	<1,000
02314-MW3	6/17/1997	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
	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
	9/26/2014	Free Product (0.95 ft.)																
02314-MW4	6/17/1997	**5,430**	**14,300**	**1,960**	**19,360**	**1,090**	<2,500	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (1.89 ft.)																
	9/26/2014	Free Product (3.11 ft.)																
02314-MW5	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-MW6	9/29/2014	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-MW7	9/29/2014	Free Product (0.23 ft.)																
02314-MW8	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-MW9	9/29/2014	0.51J	3.0	0.54J	3.0	<1.0	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-MW10	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-MW11	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-MW12	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-MW13	9/29/2014	**6,400**	**21,000**	**1,700**	8,600	**300**	**110J**	<200	--	--	<2,000	<4,000	**240**	<200	<4,000	<20,000	**5,400**	<1,000
02314-MW14	9/29/2014	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-MW15	9/29/2014	**2,800**	**12,000**	**750**	5,900	**120J**	<200	<200	--	--	<2,000	<4,000	<200	<200	<4,000	<20,000	**5,100**	<1,000
02314-MW16	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-MW16(DUP)	11/19/2014	<1.0	<1.0	<1.0	<1.0	<1.0	0.44J	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
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	<20	<100	<20	<5.0
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
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
02314-MW19(DUP)	11/6/2014	**4,100**	**15,000**	**1,700**	9,000	**340**	<200	<200	--	--	<2,000	<4,000	<200	<200	4,000	**87,000**	<4,000	<1,000
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-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
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
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
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
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
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

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9A
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**
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
	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																
	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

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-Dichloroethane
EDB = 1,2-Dibromoethane
TAME = t-amyl methyl ether or tert-Amyl methyl ether
TBA = t-Butanol 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-amyl 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

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

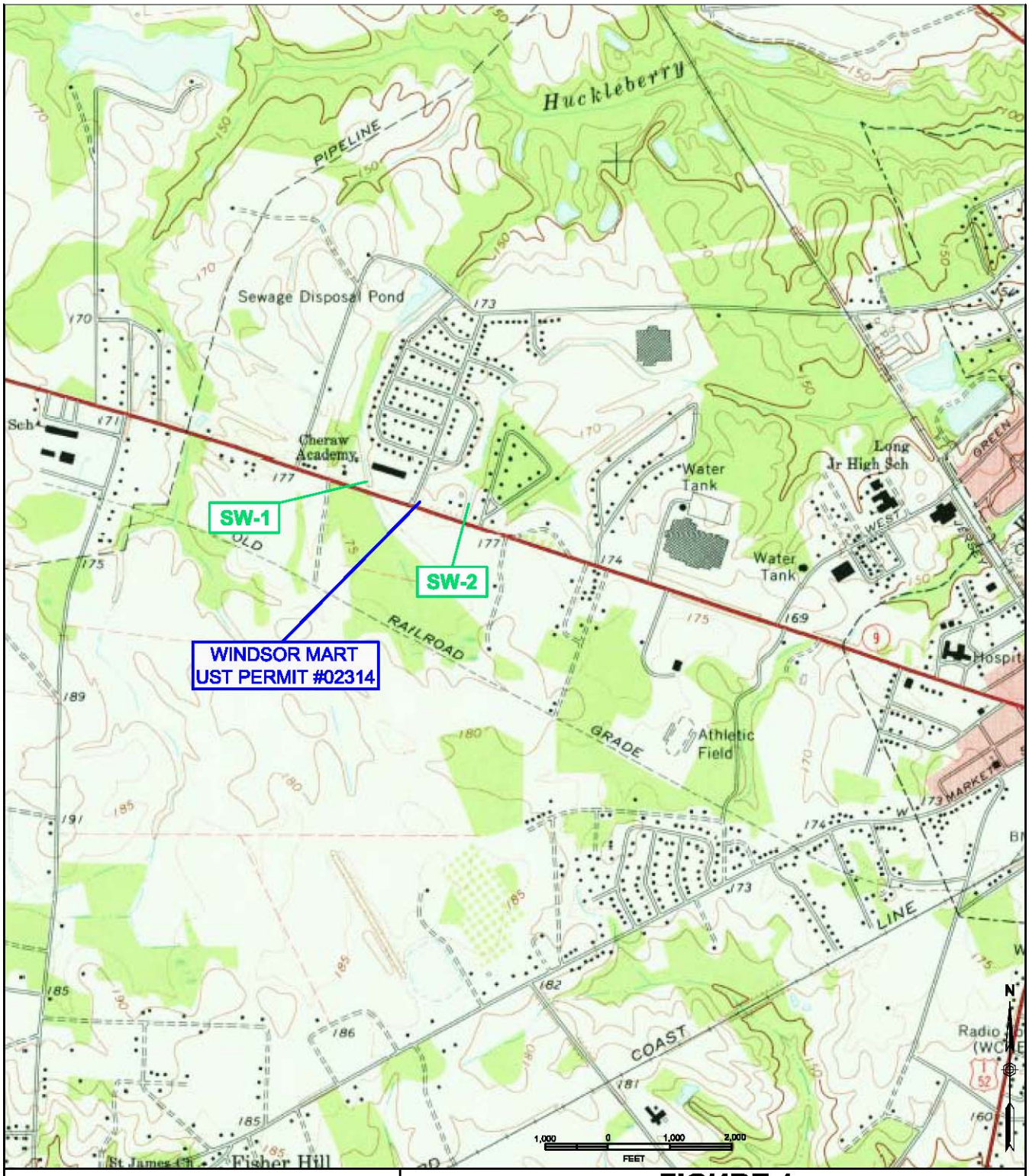


FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

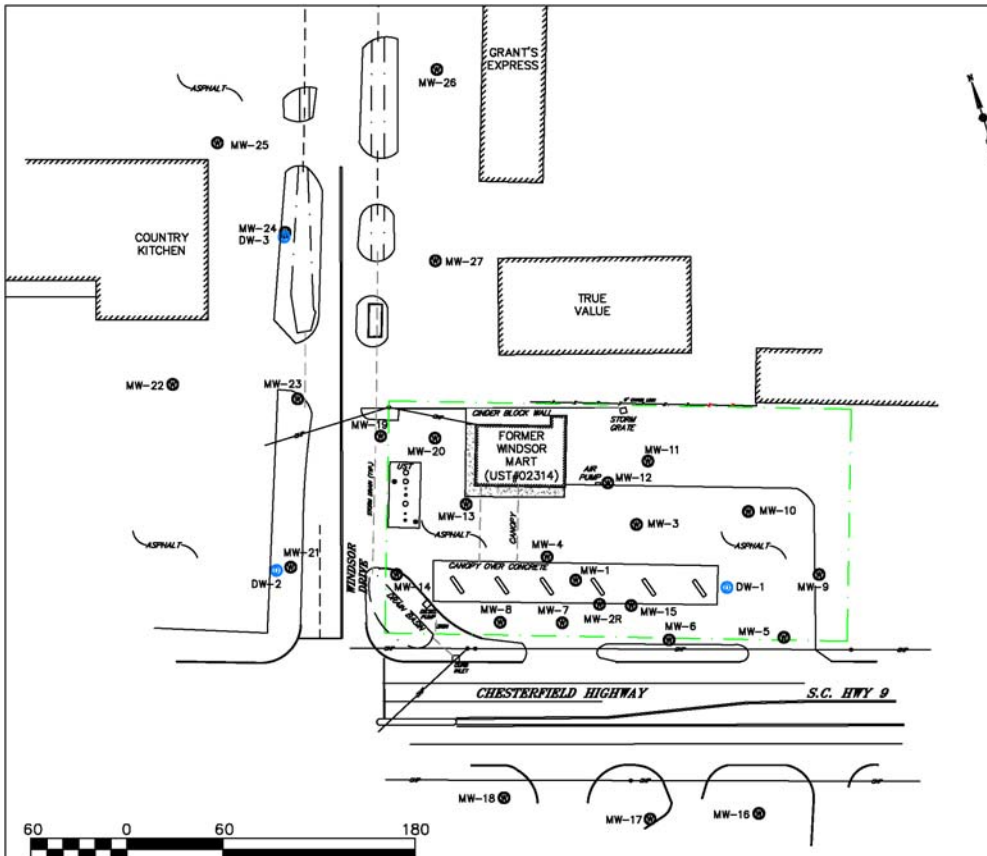
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9A	Figure 1 Topo Map	

SCALE: As Shown

DATE: March 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- BUILDING

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

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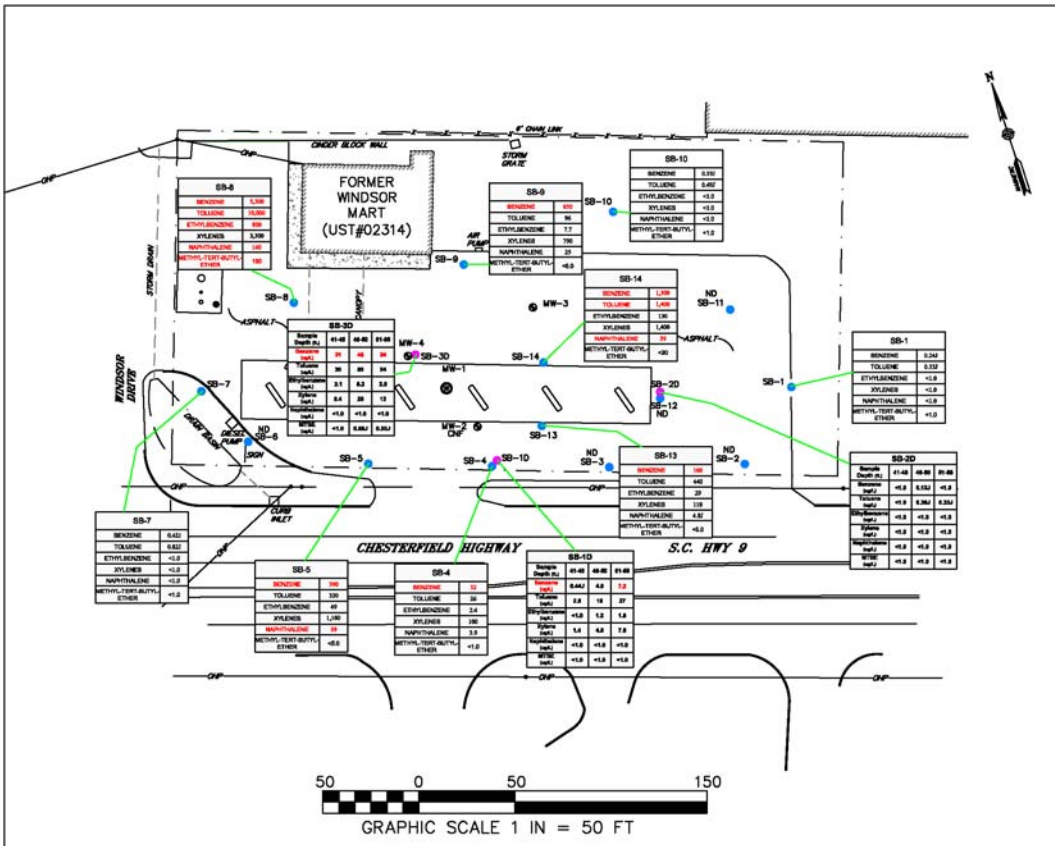
FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 60'	DATE March 2015



LEGEND & ABBREVIATIONS:

- MW = MONITORING WELL
- Power Pole with overhead powerlines
- Building
- Fence
- Shallow Soil Boring
- Deep Soil Boring

RED INDICATES CONTAMINANTS EXCEED RBSLs

SAMPLES COLLECTED JULY 14 & 16, 2014

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

TERRY ENVIRONMENTAL SERVICES
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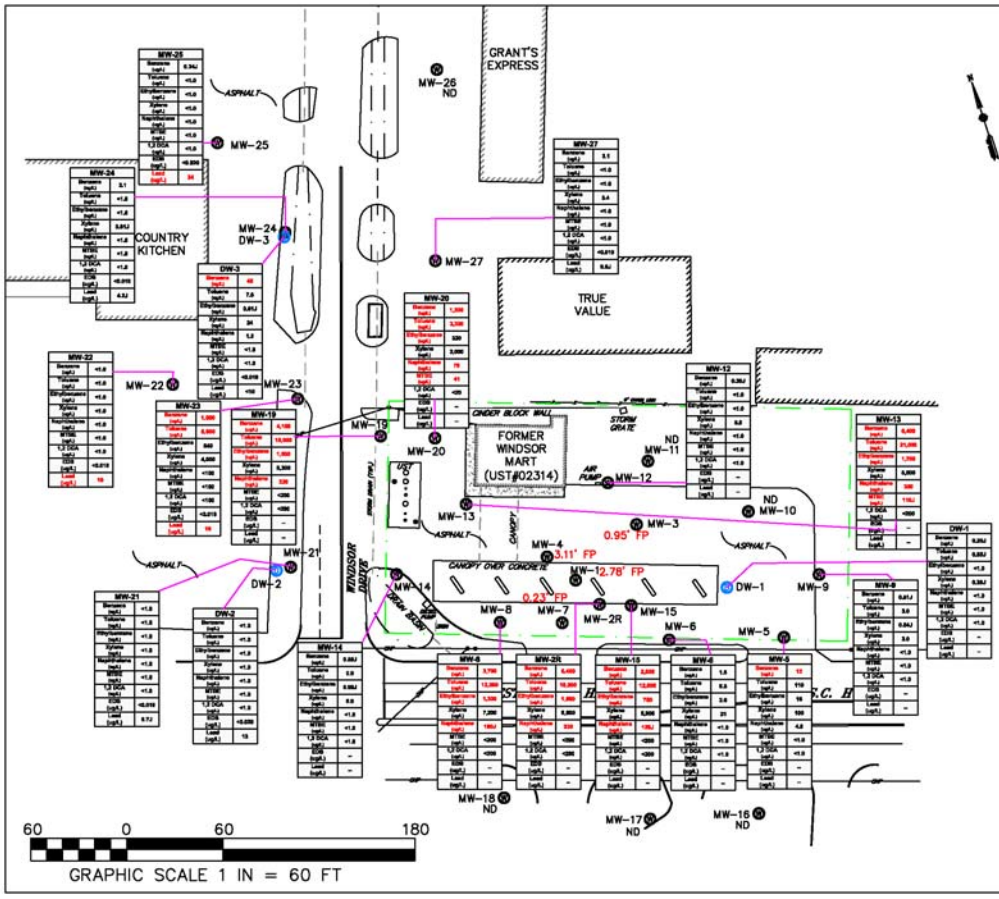
FIGURE 4A
GW FIELD DELINEATION MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 50'	DATE March 2015



LEGEND & ABBREVIATIONS:

APPROXIMATE PROPERTY LINE
POWER POLE WITH OVERHEAD POWER
MW-# MONITORING WELL
DW-# DEEP MONITORING WELL
BUILDING

EDB = 1,2-DIBROMOETHANE
MTBE = METHYL TERTIARY BUTYL ETHER
1,2 DCA = 1,2-DICHLOROETHANE
J = ESTIMATED VALUE
FP = FREE PRODUCT
-- = PARAMETERS NOT ANALYZED
RED INDICATES CONTAMINANTS EXCEED RBSLs
ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

MW-1, MW-3, MW-4, SW-1, & SW-2 data collected on September 26, 2014.

MW-2R and MW-5 through MW-15, and DW-1 data collected September 29, 2014.

MW-16 data collected November 19, 2014.

MW-17 through MW-20 data collected on November 6, 2014.

MW-21 through MW-27, DW-2, and DW-3 data collectd on on February 2, 2015.

SW-1 & SW-2 results are Non-Detect. Both locations are offsite.

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

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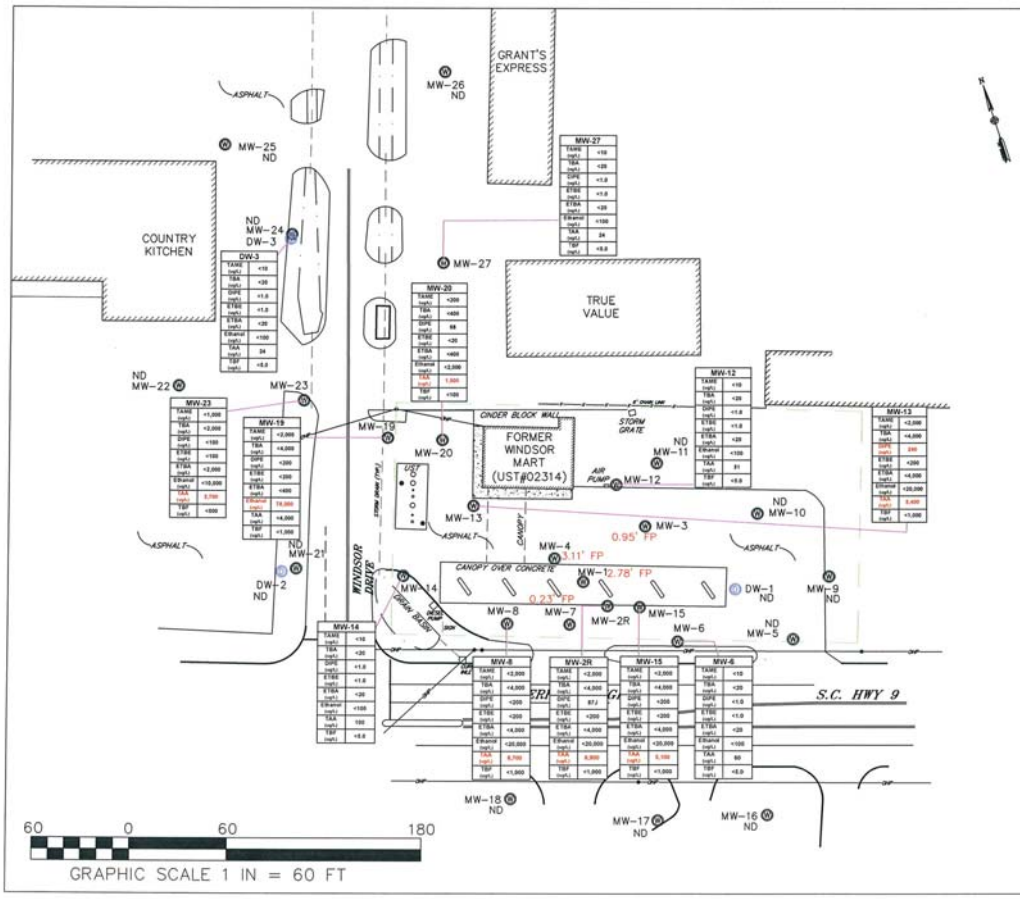
FIGURE 4B
GROUNDWATER COC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 60'	DATE March 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- BUILDING

TAME = TERT-AMYL METHYL ETHER
TBA = TERT-BUTYL ALCOHOL or T-BUTANOL
DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
ETBA = 3,3-DIMETHYL-1-BUTANOL OR ETHYL-TERT-BUTANOL
TAA = TERT-AMYL ALCOHOL
TBF = TERT-BUTYL FORMATE
J = ESTIMATED VALUE
FP = FREE PRODUCT

RED INDICATES CONTAMINANTS EXCEED RBSLs

ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

MW-1, MW-3, MW-4, SW-1, & SW-2 DATA COLLECTED ON SEPTEMBER 26, 2014

MW-2R, MW-5 THROUGH MW-15, AND DW-1 SAMPLES WERE COLLECTED ON SEPTEMBER 29, 2014

MW-17 THROUGH MW-20 SAMPLES WERE COLLECTED ON NOVEMBER 6, 2014

MW-16 SAMPLE COLLECTED ON NOVEMBER 19, 2014.

MW-21 THROUGH MW-27, DW-2, AND DW-3 DATA COLLECTED ON FEBRUARY 2, 2015

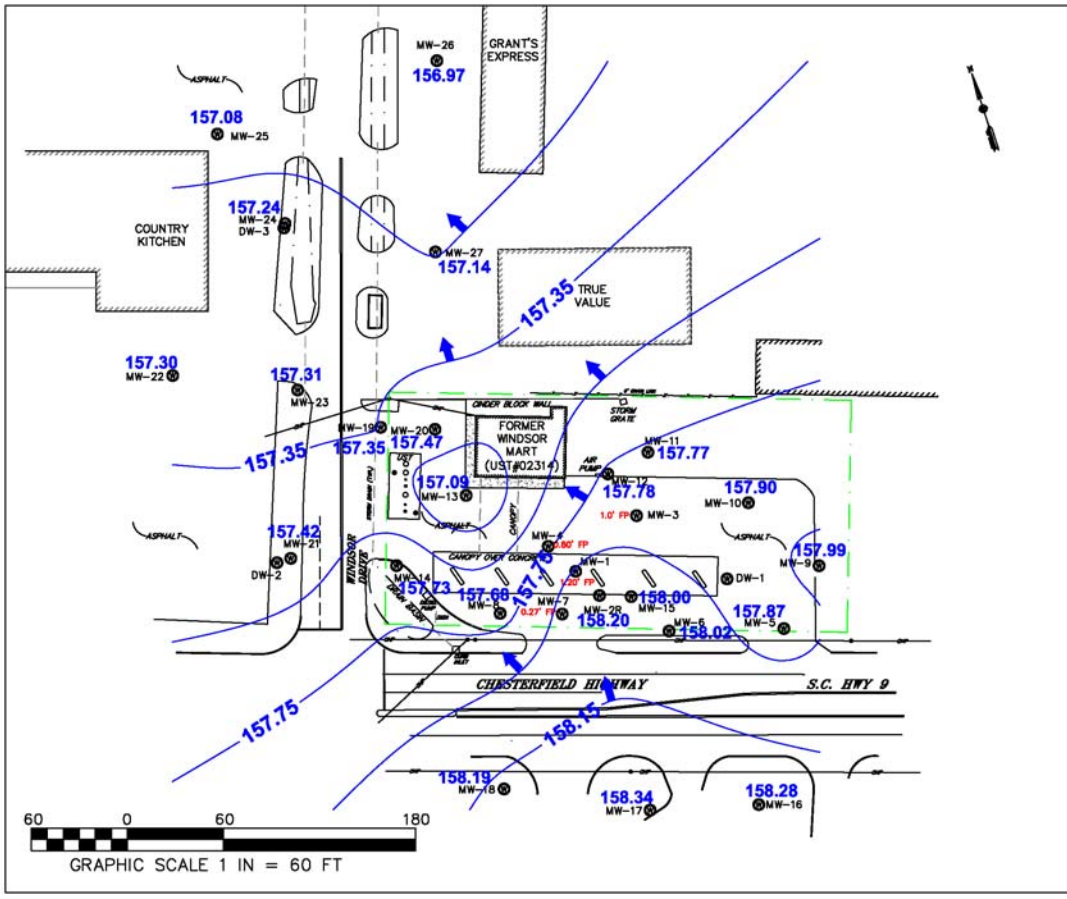
All MW and sample identifications are preceded by UST Permit #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES CLIENTS FIRST ALWAYS

FIGURE 4C
GROUNDWATER COC (OXY) MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 60'	DATE March 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- BUILDING
- 157.75 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)
- 157.90 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED FEBRUARY 2, 2015.

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

TERRY ENVIRONMENTAL SERVICES
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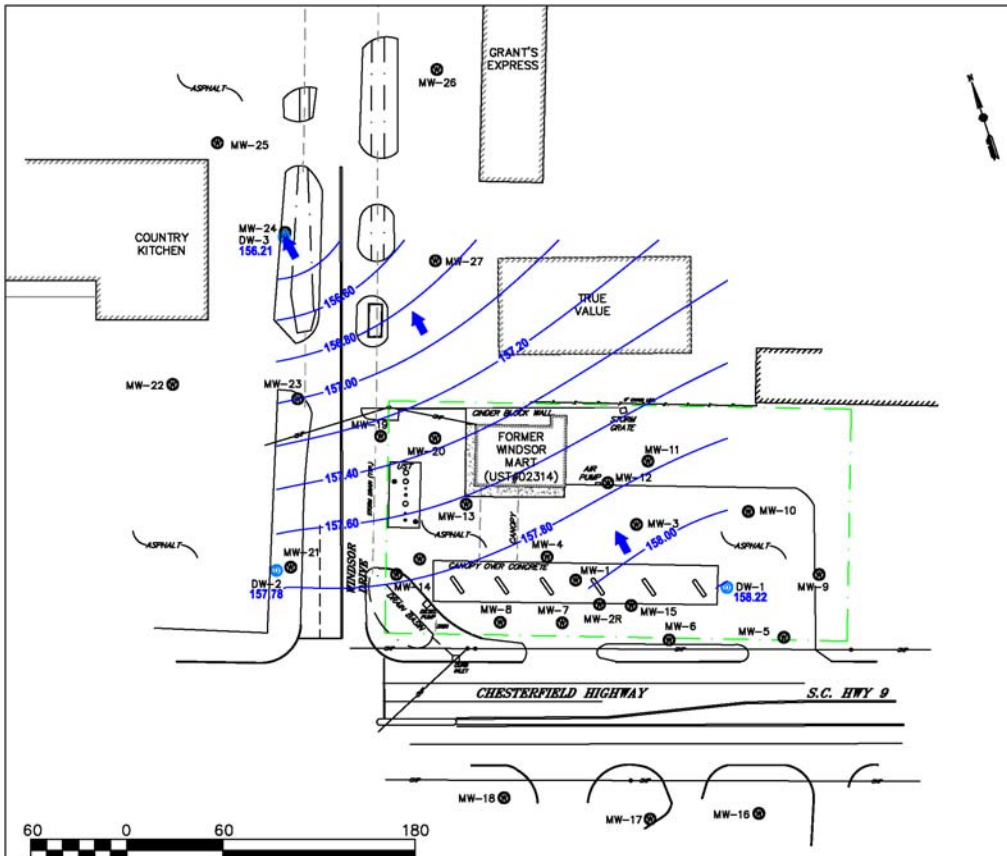
FIGURE 5A
SITE POTENTIOMETRIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" - 60'	DATE March 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- BUILDING

157.99 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)

157.90 GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED FEBRUARY 2, 2015.

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

TERRY ENVIRONMENTAL SERVICES
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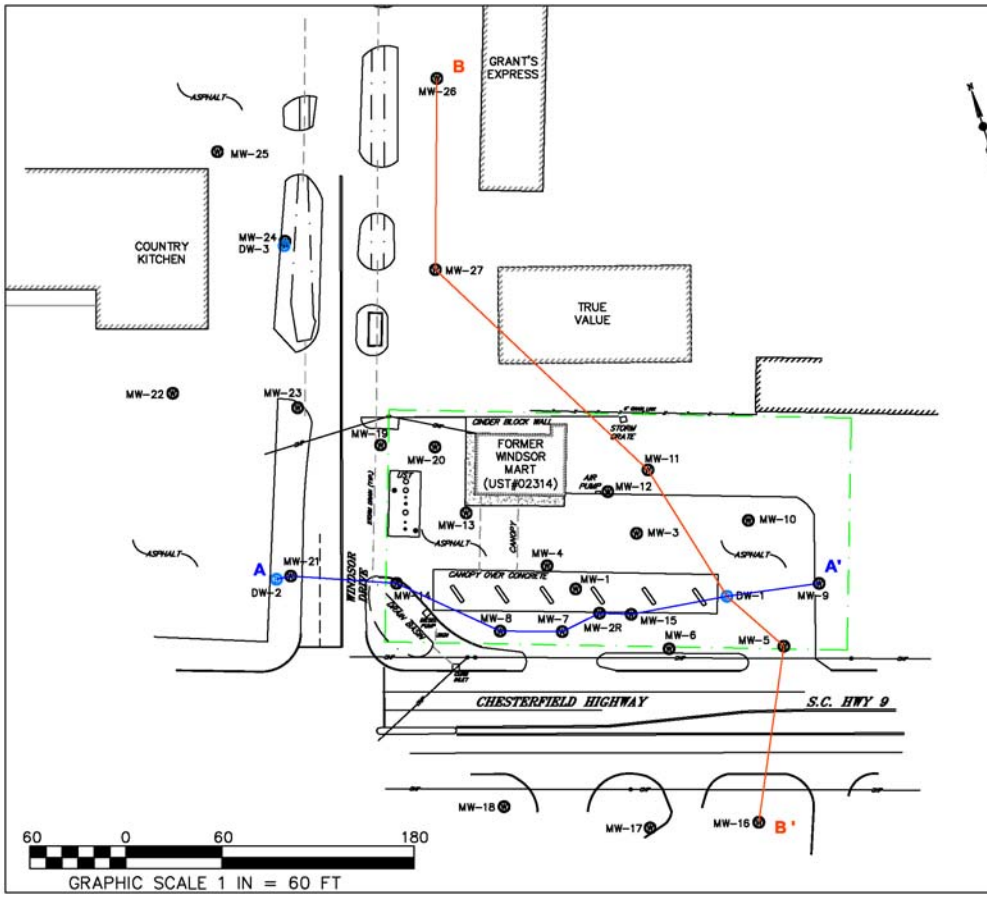
FIGURE 5B
SITE POTENTIOMETRIC MAP (DEEP)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 60'	DATE March 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- BUILDING

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

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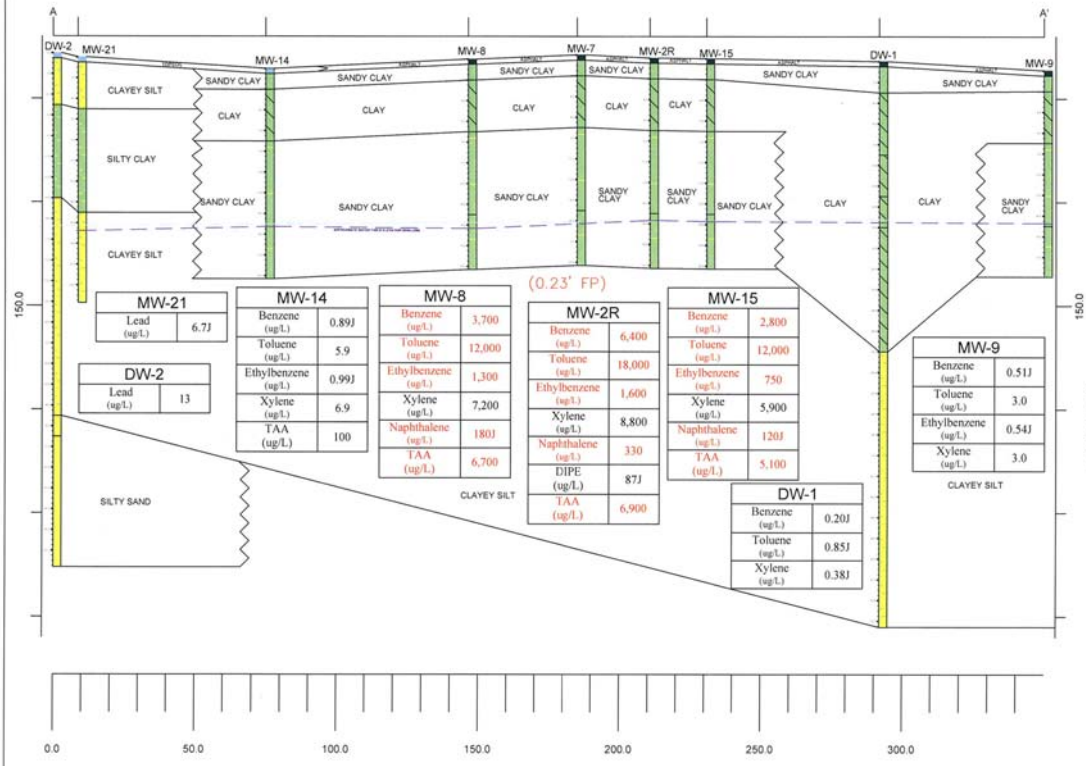
FIGURE 6A
GEOLOGIC TRANSECT MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 60'	DATE March 2015

Cross-Section A-A'



MW-21	
Lead (ug/L)	6.7J

DW-2	
Lead (ug/L)	13

MW-14	
Benzene (ug/L)	0.89J
Toluene (ug/L)	5.9
Ethylbenzene (ug/L)	0.99J
Xylene (ug/L)	6.9
TAA (ug/L)	100

MW-8	
Benzene (ug/L)	3,700
Toluene (ug/L)	12,000
Ethylbenzene (ug/L)	1,300
Xylene (ug/L)	7,200
Naphthalene (ug/L)	180J
TAA (ug/L)	6,700

MW-2R	
Benzene (ug/L)	6,400
Toluene (ug/L)	18,000
Ethylbenzene (ug/L)	1,600
Xylene (ug/L)	8,800
Naphthalene (ug/L)	330
DIPE (ug/L)	87J
TAA (ug/L)	6,900

MW-15	
Benzene (ug/L)	2,800
Toluene (ug/L)	12,000
Ethylbenzene (ug/L)	750
Xylene (ug/L)	5,900
Naphthalene (ug/L)	120J
TAA (ug/L)	5,100

DW-1	
Benzene (ug/L)	0.20J
Toluene (ug/L)	0.85J
Xylene (ug/L)	0.38J

MW-9	
Benzene (ug/L)	0.51J
Toluene (ug/L)	3.0
Ethylbenzene (ug/L)	0.54J
Xylene (ug/L)	3.0

Lithology Index

- TOPSOIL
- ASPHALT
- CLAY
- SILTY CLAY
- SANDY CLAY
- SAND
- SILTY SAND
- CLAYEY SILT
- CLAYEY SAND

DW-2 AND MW-21 SAMPLES COLLECTED FEBRUARY 2, 2015.
MW-2R, MW-5 THROUGH MW-15, AND DW-1 SAMPLES WERE COLLECTED ON SEPTEMBER 29, 2014
MW-17 THROUGH MW-20 SAMPLES WERE COLLECTED ON NOVEMBER 6, 2014
MW-16 SAMPLE WAS COLLECTED ON NOVEMBER 19, 2014.

J = ESTIMATED VALUE.
RED INDICATES CONTAMINANTS EXCEED RBSLs

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW1)

TERRY ENVIRONMENTAL SERVICES
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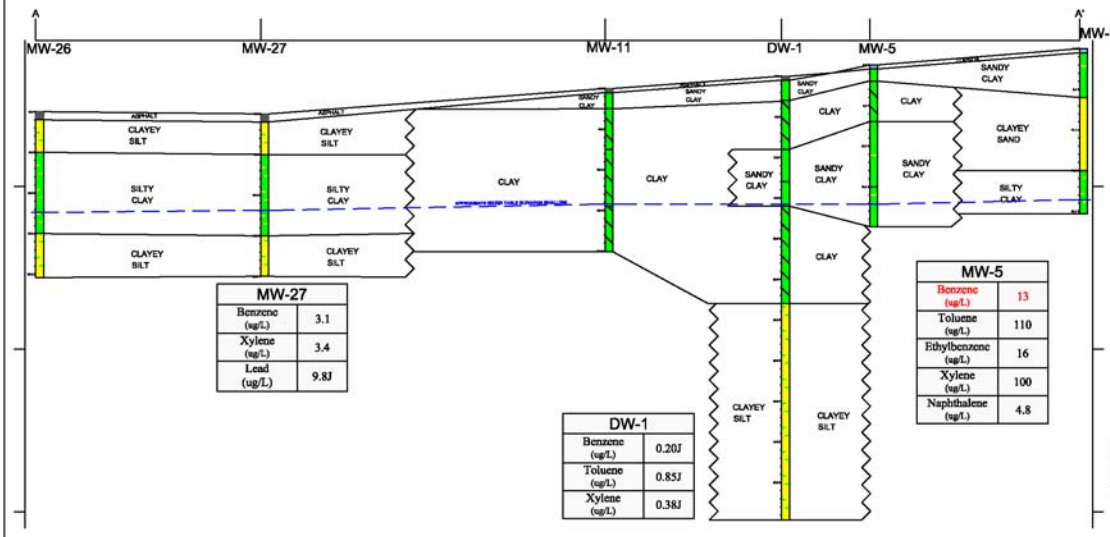
FIGURE 6B
GEOLOGIC CROSS SECTION (A-A')

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDEHEC SITE ID #
2171.9A	02314
SCALE: As Shown	DATE: March 2015

Cross-Section B-B'



MW-27	
Benzene (ug/L)	3.1
Xylene (ug/L)	3.4
Lead (ug/L)	9.8J

DW-1	
Benzene (ug/L)	0.20J
Toluene (ug/L)	0.85J
Xylene (ug/L)	0.38J

MW-5	
Benzene (ug/L)	13
Toluene (ug/L)	110
Ethylbenzene (ug/L)	16
Xylene (ug/L)	100
Naphthalene (ug/L)	4.8

Lithology Index

- ASPHALT
- CLAY
- SILTY CLAY
- SANDY CLAY
- TOPSOIL
- CLAYEY SILT
- CLAYEY SAND

MW-2R, MW-5 THROUGH MW-15, AND DW-1 SAMPLES WERE COLLECTED ON SEPTEMBER 29, 2014

MW-17 THROUGH MW-20 SAMPLES WERE COLLECTED ON NOVEMBER 6, 2014

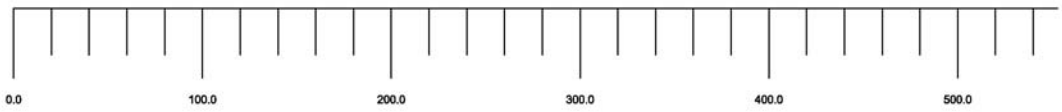
MW-16 SAMPLE WAS COLLECTED ON NOVEMBER 19, 2014

MW-27 SAMPLE COLLECTED FEBRUARY 2, 2015

J = ESTIMATED VALUE

RED INDICATES CONTAMINANTS EXCEED RBSLs

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #11033 (ie. 11033–MW1)



TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 6C
GEOLOGIC CROSS SECTION (B-B')

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDEHEC SITE ID #
2171.9A	02314
SCALE: As Shown	DATE: March 2015

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

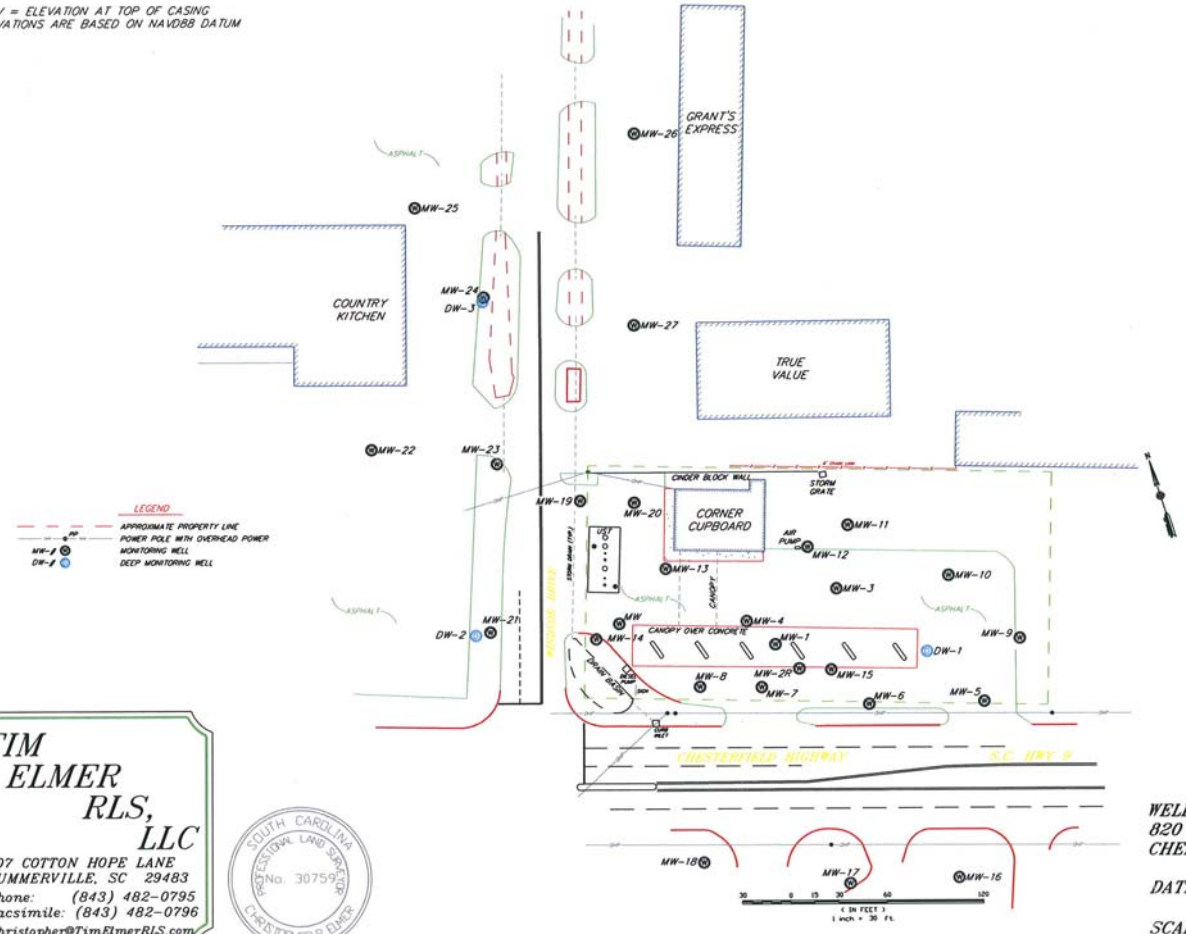
10. **Appendix J: Access Agreements**

11. **Appendix K: Data Verification Checklist**

APPENDIX A

Site Survey

ELEV = ELEVATION AT TOP OF CASING
ELEVATIONS ARE BASED ON NAVD88 DATUM



LEGEND
- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL

WELL	ELEVATION
MW-1	173.28
MW-2R	173.92
MW-3	171.43
MW-4	173.39
MW-5	174.97
MW-6	174.57
MW-7	174.20
MW-8	173.79
MW-9	172.72
MW-10	172.09
MW-11	172.07
MW-12	172.54
MW-13	172.64
MW-14	172.88
MW-15	173.85
MW-16	176.97
MW-18	175.59
MW-19	171.50
MW-20	171.82
MW-21	173.97
MW-22	171.95
MW-23	171.03
MW-24	169.78
MW-25	170.08
MW-26	169.21
MW-27	168.95
DW-1	173.59
DW-2	174.37
DW-3	169.93

TIM ELMER RLS, LLC
407 COTTON HOPE LANE
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Phone: (843) 482-0795
Facsimile: (843) 482-0796
Christopher@TimElmerRLS.com

SOUTH CAROLINA PROFESSIONAL LAND SURVEYOR No. 30759 CHRISTOPHER R. ELMER

WELL LOCATION
820 CHESTERFIELD HIGHWAY,
CHERAW, SOUTH CAROLINA

DATE: FEBRUARY 27, 2014

SCALE: 1" = 60'

CHESTERFIELD HWY 820

CHESTERFIELD HWY 820

APPENDIX B

Sampling Logs and Laboratory Data

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/26/2013 4
Field Personnel	JK, AK
General Weather	~~75~~ Cloudy
Ambient Air Temperature	75

Monitoring Well Information

Well ID	02314 - MW1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	10 to 20	ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')	19.60	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	0900	Last Verification √ (time)	

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Free Product

NO Sample

Well Condition Information

-overall condition acceptable? Y
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe? Y
-other comments

Additional Comments

DTP 16.82 Photo taken
DTW 19.60 Color: Amber
Difference 2.78 Transparent

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/25/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Monitoring Well Information

Well ID	02314 - MW 2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Volume (gal)											
Time (military)											
pH (su)					CNF. No Sample						
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/25/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW-2R		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	20.3-10.3	ft	
Total Well Depth (nearest 0.1')	20.3	ft	20.3
Depth to Groundwater (nearest 0.01')	17.60	ft	
Length of Water Column	2.70	ft	
1 Casing Volume (0.163)	0.44	ft	
3 Casing Volumes (0.489)	1.32	gals	
Total Volume Purged	1.5	gals	
Purge Technique Utilized (bailer, pump)	Pump		
Well Yield	Low ☒	Medium ☐	High ☐

Volume (gal)	Initial	0.5	1	1.5	/	Sample				
Time (military)	1340	1342	1346	1350						
pH (su)	4.47	4.81	4.77	4.80						
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						

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

MW2R DUP @ 1352

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/26/2013
Field Personnel	JK, AK
General Weather	Cloudy
Ambient Air Temperature	75

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	0900	Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-3		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')	~~14.70~~ 15.65	ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)			Free	Product	No	Sample				
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	y
-well cap acceptable?	↓
-manhole and cover acceptable?	↓
-well pad acceptable?	↓
-area safe?	↓
-other comments	

Additional Comments

Product at 14.7 Ft
Approximately 1 Ft photo taken
Amber Color, Transparent
DTP 14.70
DTW 15.65
DIFF 0.95 Ft

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/26/2013
Field Personnel	JK, AK
General Weather	Cloudy
Ambient Air Temperature	75

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	0800	Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW 4		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')	—	ft	
Depth to Groundwater (nearest 0.01')	19.43	ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)										
Time (military)										
pH (su)			No Sample, Free Product							
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DTP 16.32
DTW 19.43
DIFF 3.11

Color: Amber Transparent

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9 /24/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	90

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √(time)	1530

Monitoring Well Information

Well ID	02314 - MW05		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	19.9-9.9	ft	
Total Well Depth (nearest 0.1')	19.9	ft	19.9
Depth to Groundwater (nearest 0.01')	13.51	ft	
Length of Water Column	1.39	ft	
1 Casing Volume (0.163)	0.23	ft	
3 Casing Volumes (0.489)	0.69	gals	
Total Volume Purged	0.75	gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☒	Medium ☐	High ☐

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	491					
Dissolved Oxygen (mg/L)	7.30	6.19	3.82	5.12					

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Summerville, SC 29484
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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9 /29 /2014
Field Personnel	JK
General Weather	Cloudy Rain
Ambient Air Temperature	80

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW6		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.1 - 20.1	ft	
Total Well Depth (nearest 0.1')	20.1	ft	
Depth to Groundwater (nearest 0.01')	18.17	ft	
Length of Water Column	1.93	ft	
1 Casing Volume (0.163)	0.31	ft	
3 Casing Volumes (0.489)	0.93	gals	
Total Volume Purged	1.5	gals	
Purge Technique Utilized (bailer, pump)	(B)		20.1
Well Yield	Low ☒	Medium ☐	High ☐

Volume (gal)	Initial	0.5	1	1.5	/					
Time (military)	1300	1303	1309	1315	Sample					
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						

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Summerville, SC 29484
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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9 / 29/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Monitoring Well Information

Well ID	02314 - MW7
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	20.3-10.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Volume (gal)	Initial
Time (military)	
pH (su)	
Spec Conductivity (mS/cm)	
Water Temperature (°C)	
Turbidity (NTU)	
Dissolved Oxygen (mg/L)	

Free Product, No Sample

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DTP 17.86
DTW 18.09
DIFF 0.23

Color: light amber, transparent

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9 /24 /2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW8		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.3 - 20.3	ft	
Total Well Depth (nearest 0.1')	20.3	ft	
Depth to Groundwater (nearest 0.01')	17.55	ft	
Length of Water Column	2.75	ft	
1 Casing Volume (0.163)	0.45	ft	
3 Casing Volumes (0.489)	1.35	gals	
Total Volume Purged	1.5	gals	
Purge Technique Utilized (bailer, pump)			20.3
Well Yield	Low ☒	Medium ☐	High ☐

Volume (gal)	Initial	0.5	1	1.5						
Time (military)	1420	1423	1428	1435	/ Sample					
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						

Well Condition Information

-overall condition acceptable?	YES
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9 /29 /2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Monitoring Well Information

Well ID	02314 - MW29
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	19.9 - 9.9	ft	
Total Well Depth (nearest 0.1')	19.9	ft	
Depth to Groundwater (nearest 0.01')	16.84	ft	
Length of Water Column	3.06	ft	
1 Casing Volume (0.163)	0.50	ft	
3 Casing Volumes (0.489)	1.50	gals	
Total Volume Purged	1.5	gals	
Purge Technique Utilized (bailer, pump)			19.9
Well Yield	Low ☐ Medium ☐ High ☐		

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	1530

Volume (gal)	Initial	0.5	1	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					

Well Condition Information

-overall condition acceptable?	YES
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9 / 29 /2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Monitoring Well Information

Well ID	02314 - MW 10
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	20.3 - 10.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	15.85	ft
Length of Water Column	4.45	ft
1 Casing Volume (0.163)	0.73	ft
3 Casing Volumes (0.489)	2.19	gals
Total Volume Purged	2.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump) — pump

Well Yield — Low ☐ Medium ☒ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	1530

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					

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	↓
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/29/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √(time)	—

Monitoring Well Information

Well ID	02314 - MW11		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	20.1 - 10.1	ft	
Total Well Depth (nearest 0.1')	20.1	ft	
Depth to Groundwater (nearest 0.01')	15.95	ft	
Length of Water Column	4.15	ft	
1 Casing Volume (0.163)	0.68	ft	
3 Casing Volumes (0.489)	2.04	gals	
Total Volume Purged	2.25	gals	
Purge Technique Utilized (bailer, pump)	Pump		20.1
Well Yield	Low ☒ Medium ☐ High ☐		

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					

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/29/2015
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80's

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW12		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	20.3-10.3	ft	
Total Well Depth (nearest 0.1')	20.3	ft	
Depth to Groundwater (nearest 0.01')	16.40	ft	
Length of Water Column	3.90	ft	
1 Casing Volume (0.163)	0.64	ft	
3 Casing Volumes (0.489)	1.92	gals	
Total Volume Purged	2.25	gals	
Purge Technique Utilized (bailer, pump)			20.3
Well Yield	Low ☐ Medium ☑ High ☐		

Volume (gal)	Initial	1230	1237	1243	Sampled				
Time (military)	1220	Δ 0.75	Δ 1.5	Δ 2.25					
pH (su)	4.63	5.10	5.106	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					

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/29/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Monitoring Well Information

Well ID	02314 - MW13
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	20.3-10.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	17.20	ft
Length of Water Column	3.10	ft
1 Casing Volume (0.163)	0.50	ft
3 Casing Volumes (0.489)	1.50	gals
Total Volume Purged	1.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☒ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Volume (gal)	Initial	0.5	1	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						

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/29/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Monitoring Well Information

Well ID	02314 - MW-4
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	20.3 - 10.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	16.75	ft
Length of Water Column	3.55	ft
1 Casing Volume (0.163)	0.58	ft
3 Casing Volumes (0.489)	1.74	gals
Total Volume Purged	2.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☒ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Volume (gal)	Initial	0.75	1.5	2.25	/ sample					
Time (military)	1440	1443	1450	1500						
pH (su)	4.71	4.67	4.62	4.64						
Spec Conductivity (mS/cm)	0.046	0.047	0.050	0.051						
Water Temperature (°C)	20.1	21.8	21.9	21.8						
Turbidity (NTU)	43.2	103	107	114						
Dissolved Oxygen (mg/L)	4.66	4.71	4.47	3.86						

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9 /29 /2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Monitoring Well Information

Well ID	02314 - MW15
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	20.3-10.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	17.90	ft
Length of Water Column	2.40	ft
1 Casing Volume (0.163)	0.39	ft
3 Casing Volumes (0.489)	1.17	gals
Total Volume Purged	1.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump) (P)

Well Yield Low ☐ Medium ☑ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	—

Volume (gal)	Initial	0.5	1	1.5	Single					
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						
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						

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Slight Petro Odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/29/2014
Field Personnel	JK
General Weather	Cloudy
Ambient Air Temperature	80

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1130	Last Verification √ (time)	1530

Monitoring Well Information

Well ID	02314 - DW1		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	54.6-49.6	ft	
Total Well Depth (nearest 0.1')	54.6	ft	
Depth to Groundwater (nearest 0.01')	16.97	ft	
Length of Water Column	37.63	ft	
1 Casing Volume (0.163)	6.13	ft	
3 Casing Volumes (0.489)	18.39	gals	
Total Volume Purged	21	gals	
Purge Technique Utilized (bailer, pump)			54.6
Well Yield	Low ☐ Medium ☐ High ☒		

Volume (gal)	Initial	3.5	7	10.5	14	17.5	21	/ Sampled		
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	0.173	0.151	0.189	~~0.02~~ 0.211	0.215	0.222			
Water Temperature (°C)	21.6	20.8	20.7	20.6	20.4	20.4	20.4			
Turbidity (NTU)	390	85.9	77.6	54.2	47.0	43.9	44.1			
Dissolved Oxygen (mg/L)	10.60	3.12	5.90	4.87	2.15	2.67	2.99			

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable? ↓
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	4/26/2013
Field Personnel	JK, AK
General Weather	Cloudy
Ambient Air Temperature	75

Monitoring Well Information

Well ID	02314 - SW1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	0800	Last Verification √ (time)	

Volume (gal)	Int	Sample								
Time (military)	0940									
pH (su)	5.17									
Spec Conductivity (mS/cm)	0.117									
Water Temperature (°C)	19.5									
Turbidity (NTU)	172									
Dissolved Oxygen (mg/L)	4.75									

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

SW1 North of Site near Rear-a-Center

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	9/26/2018
Field Personnel	JK AK
General Weather	Cloudy
Ambient Air Temperature	75

Monitoring Well Information

Well ID	02314 - SW2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter		in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	0800	Last Verification √ (time)	

Volume (gal)	In	Sample									
Time (military)	1000										
pH (su)	5.28										
Spec Conductivity (mS/cm)	0.104										
Water Temperature (°C)	18.6										
Turbidity (NTU)	21.2										
Dissolved Oxygen (mg/L)	4.68										

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

South of site behind residential house.

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11/6/2013
Field Personnel	AK JK
General Weather	~~JK 65~~ Cloudy
Ambient Air Temperature	65

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1630	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW 16		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates		
Well Diameter		in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			20.3
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)							No Sample				
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments _____

Additional Comments

Dry

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11/6/2013
Field Personnel	AK, JK
General Weather	~~65~~ Cloudy
Ambient Air Temperature	65

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)	1630	*Last Verification √ (time)*	—

Monitoring Well Information

Well ID	02314 - MW17		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.4-20.4	ft	
Total Well Depth (nearest 0.1')	20.4	ft	
Depth to Groundwater (nearest 0.01')	20.10	ft	
Length of Water Column	0.30	ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			20.4
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	y
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	↓
-other comments	

Additional Comments

Well was practically dry - only 2 vials collected

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11/6/2013
Field Personnel	AK, JK
General Weather	Cloudy
Ambient Air Temperature	65

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1630	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW 18		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	14.6-24.6	ft	
Total Well Depth (nearest 0.1')	24.6	ft	
Depth to Groundwater (nearest 0.01')	19.74	ft	
Length of Water Column	4.86	ft	
1 Casing Volume (0.163)	0.79	ft	
3 Casing Volumes (0.489)	2.37	gals	
Total Volume Purged	3	gals	
Purge Technique Utilized (bailer, pump)			24.6
Well Yield	Low ☐ Medium ☐ High ☐		

	Int.	1	2	3	Sample
Volume (gal)	Int.	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	

Well Condition Information

- -overall condition acceptable? Y
- -well cap acceptable?
- -manhole and cover acceptable?
- -well pad acceptable?
- -area safe?
- -other comments

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11/6/2013 14
Field Personnel	AK, JK
General Weather	Cloudy
Ambient Air Temperature	65

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1630	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW-19		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	12.3-22.3	ft	
Total Well Depth (nearest 0.1')	22.3	ft	
Depth to Groundwater (nearest 0.01')	16.32	ft	
Length of Water Column	5.98	ft	
1 Casing Volume (0.163)	0.97	ft	
3 Casing Volumes (0.489)	2.91	gals	
Total Volume Purged	3	gals	
Purge Technique Utilized (bailer, pump)			22.3
Well Yield	Low ☐ Medium ☐ High ☐		

	Int	1	2	3	Sample
Volume (gal)					
Time (military)	1705	1707	1709	1711	
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	

Well Condition Information

-overall condition acceptable?	Y
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

MW 19 Dup @ 1713

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11/6/2014
Field Personnel	AK, JK
General Weather	Cloudy
Ambient Air Temperature	65

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1630	Last Verification √(time)	—

Monitoring Well Information

Well ID	02314 - MW20	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates	
Well Diameter	2	in
Screened Interval	12.2-22.2	ft
Total Well Depth (nearest 0.1')	22.2	ft
Depth to Groundwater (nearest 0.01')	16.63	ft
Length of Water Column	5.57	ft
1 Casing Volume (0.163)	0.91	ft
3 Casing Volumes (0.489)	2.73	gals
Total Volume Purged	3	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

22.2

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☐

Volume (gal)	Int	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	

Well Condition Information

-overall condition acceptable?	Y
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	↓
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 / 19 /2014
Field Personnel	AK
General Weather	Partly Cloudy
Ambient Air Temperature	25

Monitoring Well Information

Well ID	02314 - MW 16
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	26-16	ft
Total Well Depth (nearest 0.1')	26.0	ft
Depth to Groundwater (nearest 0.01')	21.50	ft
Length of Water Column	4.5	ft
1 Casing Volume (0.163)	0.73	ft
3 Casing Volumes (0.489)	2.19	gals
Total Volume Purged	3	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

26.0

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	0900	Last Verification √(time)	—

Volume (gal)	Int	1	2	3	Sample					
Time (military)	0924	0926	0928	0930						
pH (su)	5.43	4.61	4.55	4.52						
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						

Well Condition Information

-overall condition acceptable?	Y
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

MW 16 Dup taken @ 0932

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 /12 /2015
Field Personnel	JK
General Weather	Clear
Ambient Air Temperature	50

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1345	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW-1		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	23.7 - 13.7	ft	
Total Well Depth (nearest 0.1')	23.7	ft	23.7
Depth to Groundwater (nearest 0.01')	16.55	ft	
Length of Water Column	7.15	ft	
1 Casing Volume (0.163)	1.17	ft	
3 Casing Volumes (0.489)	3.51	gals	
Total Volume Purged	3.75	gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)	Initial	1.25	2.70	3.75
Time (military)	1807	1810	1813	1816
pH (su)	~~6.90~~ 7.10	~~6.04~~ 6.04	~~6.05~~ 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)	792	515	506	496
Dissolved Oxygen (mg/L)	3.01	5.02	4.22	4.19

Well Condition Information

-overall condition acceptable?	YES
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	4 / 2 /2015
Field Personnel	JK
General Weather	Clear
Ambient Air Temperature	55

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1345	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW 22	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol	
Well Diameter	2	in
Screened Interval	12-22.0	ft
Total Well Depth (nearest 0.1')	22.0	ft
Depth to Groundwater (nearest 0.01')	14.65	ft
Length of Water Column	7.35	ft
1 Casing Volume (0.163)	1.19	ft
3 Casing Volumes (0.489)	3.57	gals
Total Volume Purged	3.75	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

22.0

Purge Technique Utilized (bailer, pump) (B)

Well Yield Low ☐ Medium ☒ High ☐

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						
Turbidity (NTU)	92.0	411	428	433						
Dissolved Oxygen (mg/L)	8.53	7.14	6.79	5.83						

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 / 2 /2015
Field Personnel	JK
General Weather	clear
Ambient Air Temperature	50

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1345	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW23		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	2.12-11.12	ft	
Total Well Depth (nearest 0.1')	21.2	ft	
Depth to Groundwater (nearest 0.01')	13.72	ft	
Length of Water Column	7.48	ft	
1 Casing Volume (0.163)	1.22	ft	
3 Casing Volumes (0.489)	3.66	gals	
Total Volume Purged	3.75	gals	
Purge Technique Utilized (bailer, pump)			21.2
Well Yield	Low ☐	Medium ☒	High ☐

	Initial	1.25	2.50	3.75
Volume (gal)	Initial	1.25	2.50	3.75
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)	801	373	384	392
Dissolved Oxygen (mg/L)	3.04	2.93	2.79	3.11

Well Yield	1/5mm SL

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	↓
-manhole and cover acceptable?	↓
-well pad acceptable?	↓
-area safe?	↓
-other comments	↓

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 / 2 /2015
Field Personnel	JK
General Weather	Clear
Ambient Air Temperature	60

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1345	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW24		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	21-11	ft	
Total Well Depth (nearest 0.1')	21.0	ft	
Depth to Groundwater (nearest 0.01')	12.54	ft	
Length of Water Column	8.46	ft	
1 Casing Volume (0.163)	1.37	ft	
3 Casing Volumes (0.489)	4.11	gals	
Total Volume Purged	4.5	gals	
Purge Technique Utilized (bailer, pump)			21.0
Well Yield	Low ☐ Medium ☒ High ☐		

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					
Dissolved Oxygen (mg/L)	3.06	4.76	5.35	8.49					

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments _____

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 / 2 /2015
Field Personnel	JK
General Weather	Clear
Ambient Air Temperature	55

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1545	Last Verification √ (time)	—

Monitoring Well Information

Well ID	02314 - MW-25
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	21 - 11	ft
Total Well Depth (nearest 0.1')	21.0	ft
Depth to Groundwater (nearest 0.01')	13.00	ft
Length of Water Column	8.00	ft
1 Casing Volume (0.163)	1.30	ft
3 Casing Volumes (0.489)	3.90	gals
Total Volume Purged	4.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☒ High ☐

21.0

Volume (gal)	Initial	1.5	3.0	4.5
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

Well Condition Information

-overall condition acceptable?	YES
-well cap acceptable?	↓
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 / 7 /2015
Field Personnel	JK
General Weather	Clear
Ambient Air Temperature	50

Monitoring Well Information

Well ID	02314 - MW26
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	10.4-20.4	ft
Total Well Depth (nearest 0.1')	20.4	ft
Depth to Groundwater (nearest 0.01')	12.24	ft
Length of Water Column	8.16	ft
1 Casing Volume (0.163)	1.33	ft
3 Casing Volumes (0.489)	3.99	gals
Total Volume Purged	4.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

2014

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1345	Last Verification √ (time)	—

Purge Technique Utilized (bailer, pump) (2)

Well Yield Low ☐ Medium ☒ High ☐

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)	0.136	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					

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	↓
-manhole and cover acceptable?	↓
-well pad acceptable?	↓
-area safe?	↓
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7/7/2015
Field Personnel	JK
General Weather	clear
Ambient Air Temperature	45

Monitoring Well Information

Well ID	02314 - MW-7	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol	
Well Diameter	2	in
Screened Interval	20-10	ft
Total Well Depth (nearest 0.1')	20.0	ft
Depth to Groundwater (nearest 0.01')	11.81	ft
Length of Water Column	8.19	ft
1 Casing Volume (0.163)	1.33	ft
3 Casing Volumes (0.489)	3.99	gals
Total Volume Purged	4.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☐ — 20.0

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1345	Last Verification √(time)	—

	Initial	1.5	3.0	4.5	sample				
Volume (gal)									
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					

Well Condition Information

-overall condition acceptable?	YES
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7 / 7 /2015
Field Personnel	JK
General Weather	Clear
Ambient Air Temperature	90

Monitoring Well Information

Well ID	02314 - DW2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol

Well Diameter	2	in
Screened Interval	49.16 - 44.16	ft
Total Well Depth (nearest 0.1')	49.16	ft
Depth to Groundwater (nearest 0.01')	16.15	ft
Length of Water Column	33.01	ft
1 Casing Volume (0.163)	5.38	ft
3 Casing Volumes (0.489)	16.14	gals
Total Volume Purged	16.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

49.16

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☒ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1345	Last Verification √ (time)	—

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			

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	Yes
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	Yes
-other comments	

Additional Comments

DW2 DUP - 1848

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9A
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2/12/2015
Field Personnel	JK
General Weather	Clear
Ambient Air Temperature	65

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1545	Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - DW3		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	49.6-44.6	ft	
Total Well Depth (nearest 0.1')	49.6	ft	
Depth to Groundwater (nearest 0.01')	13.72	ft	
Length of Water Column	35.88	ft	
1 Casing Volume (0.163)	5.84	ft	
3 Casing Volumes (0.489)	17.52	gals	
Total Volume Purged	18	gals	
Purge Technique Utilized (bailer, pump)			49.6
Well Yield	Low ☐ Medium ☒ High ☐		

Volume (gal)	Initial	3.0	6.0	9.0	12.0	15.0	18.0			
Time (military)	1600	1602	1604	1606	1608	1610	1612			
pH (su)	3.57	3.75	3.88	9.12	9.33	9.42	9.40			
Spec Conductivity (mS/cm)	1.46	1.47	1.50	1.53	1.55	1.57	1.53			
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			

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	Y
-other comments	

Additional Comments

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HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 9/26/14 0805 **Inspector:** AK

Solution Manufacturer: Aurical **Lot Number:** 3AJ638 **Expiration Date:** 10/14

Solution Value	***Instrument Reading***	***Accuracy***
pH: 4.00	3.89	± 0.11
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	***Instrument Reading***	***Accuracy***
NIST-Traceable Thermometer:	24.1 °C	24.4 °C	± 0.3 °C

QAPP Acceptance Criteria

Field Parameter	***Accuracy***
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*

Inspector's Maintenance Notes

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HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 9/26/14 1010 **Inspector:** AK

Solution Manufacturer: Aurical **Lot Number:** _____ **Expiration Date:** _____

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	3.97	± 0.03
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	24.3 °C	24.7 °C	± 0.4 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

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HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 9.29.14 / 1130 **Inspector:** JK

Solution Manufacturer: Aurical **Lot Number:** 3AJ638 **Expiration Date:** 10/14

Solution Value	***Instrument Reading***	***Accuracy***
pH: 4.00	3.99	± 0.01
Conductivity: 4.49 mS/cm	4.52 mS/cm	± 0.03 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0.0 NTU

	Standard Reading	***Instrument Reading***	***Accuracy***
NIST-Traceable Thermometer:	22.4 °C	22.4 °C	± 0.0 °C

QAPP Acceptance Criteria

Field Parameter	***Accuracy***
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*

Inspector's Maintenance Notes

Windsor Mart

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HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 9·29·14/1530 **Inspector:** JK

Solution Manufacturer: Aurical **Lot Number:** 3AJG38 **Expiration Date:** 10/14

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.02	± 0.02
Conductivity: 4.49 mS/cm	4.47 mS/cm	± 0.02 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0.0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	22.2 °C	22.2 °C	± 0.0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Windsor Mast

TERRY Environmental Services
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HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 9.29.14/1700 **Inspector:** JK

Solution Manufacturer: Aurical **Lot Number:** 3AJ638 **Expiration Date:** 10/14

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.03	± 0.03
Conductivity: 4.49 mS/cm	4.47 mS/cm	± 0.02 mS/cm
Turbidity: 0.0 NTU	0.1 NTU	± 0.1 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	22.0 °C	22.0 °C	± 0.0°C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Windsor Mart

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HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 11/6/14 1630 **Inspector:** AK

Solution Manufacturer: Aurical **Lot Number:** 4AH949 **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	0.0 NTU	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	24.4 °C	24.6 °C	± 0.2 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Windsor Mart 2171.9A

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HORIBA U-52-2 DAILY VERIFICATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 11/6/14 1740 **Inspector:** AK

Solution Manufacturer: Aurical **Lot Number:** 4AH949 **Expiration Date:** 08/2015

Solution Value	***Instrument Reading***	***Accuracy***
pH: 4.00	4.01	± 0.01
Conductivity: 4.49 mS/cm	4.51 mS/cm	± 0.02 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	***Instrument Reading***	***Accuracy***
NIST-Traceable Thermometer:	24.3 °C	24.5 °C	± 0.2 °C

QAPP Acceptance Criteria

Field Parameter	***Accuracy***
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*

Inspector's Maintenance Notes

Windsor Mart 2171.9A

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Windsor Mart 2171.9A

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 11/9/2014 0900 **Inspector:** AK

Solution Manufacturer: Aurical **Lot Number:** 4AH949 **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	0.0 NTU	± 0 NTU

	Standard Reading	***Instrument Reading***	***Accuracy***
NIST-Traceable Thermometer:	19.8 °C	19.9 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	***Accuracy***
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*

Inspector's Maintenance Notes

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Windsor Mart 2171.9A

HORIBA U-52-2 DAILY ~~CALIBRATION~~ VERIFICATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 11/19/2015 0945 **Inspector:** AK

Solution Manufacturer: Aurical **Lot Number:** 4AH949 **Expiration Date:** 08/2015

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.51 mS/cm	± 0.02 mS/cm
Turbidity: 0.0 NTU	0.1 NTU	± 0.1 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	20.2 °C	20.4 °C	± 0.2 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 2-25/1545 **Inspector:** JK

Solution Manufacturer: Aurical **Lot Number:** 4AH949 **Expiration Date:** 8/25

Solution Value	***Instrument Reading***	***Accuracy***
pH: 4.00	4.02	± 0.02
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0.0 NTU

	Standard Reading	***Instrument Reading***	***Accuracy***
NIST-Traceable Thermometer:	17.0 °C	17.1 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	***Accuracy***
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*

Inspector's Maintenance Notes

Windsor Mill
2-27 DW 2-3

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY VERIFICATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 2-2-15/1940 **Inspector:** JK

Solution Manufacturer: Aurical **Lot Number:** 4A17949 **Expiration Date:** 8/15

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.07	± 0.07
Conductivity: 4.49 mS/cm	4.55 mS/cm	± 0.06 mS/cm
Turbidity: 0.0 NTU	0.2 NTU	± 0.2 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	15.4 °C	15.6 °C	±0.2 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Windsor Mast

SHEALY ENVIRONMENTAL SERVICES, INC.

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.

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.

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
008	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

Sample	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
008	02314-SB8	Aqueous	Benzene	8260B	5300		ug/L	13
008	02314-SB8	Aqueous	Ethylbenzene	8260B	800		ug/L	13
008	02314-SB8	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	160		ug/L	13
008	02314-SB8	Aqueous	Naphthalene	8260B	140		ug/L	13
008	02314-SB8	Aqueous	Toluene	8260B	10000		ug/L	13
008	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	Toluene	8260B	18		ug/L	21
016	02314-SB1D50	Aqueous	Xylenes (total)	8260B	4.9		ug/L	21

Executive Summary (Continued)

Lot Number: PG21012

Sample	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)

Client: **Terry Environmental Services, Inc.** Laboratory ID: **PG21012-001**

Description: **02314-SB1** Matrix: **Aqueous**

Date Sampled: **07/14/2014 1240**

Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2014 2120	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.24**	**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**	**0.33**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance 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"

Client: **Terry Environmental Services, Inc.** Laboratory ID: **PG21012-002**

Description: **02314-SB2** Matrix: **Aqueous**

Date Sampled: **07/14/2014 1310**

Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2014 2141	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	Run 1 % Recovery	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"

Client: **Terry Environmental Services, Inc.** Laboratory ID: **PG21012-003**

Description: **02314-SB3** Matrix: **Aqueous**

Date Sampled: **07/14/2014 1337**

Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	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	Run 1 % Recovery	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
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Terry Environmental Services, Inc.**
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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2014 2223	PMM2		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	Q	Run 1 % 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
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"

Client: **Terry Environmental Services, Inc.** Laboratory ID: **PG21012-005**

Description: **02314-SB5** Matrix: **Aqueous**

Date Sampled: **07/14/2014 1420**

Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/26/2014 0234	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**360**		**5.0**	**0.66**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**49**		**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**	**39**		**5.0**	**2.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**320**		**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1100**		**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		108	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"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-006**
Description: **02314-SB6**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1500**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2014 2244	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	Run 1 % 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
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"

Client: **Terry Environmental Services, Inc.** Laboratory ID: **PG21012-007**

Description: **02314-SB7** Matrix: **Aqueous**

Date Sampled: **07/14/2014 1535**

Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2014 2305	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.42**	**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**	**0.82**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

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

Client: **Terry Environmental Services, Inc.** Laboratory ID: **PG21012-008**

Description: **02314-SB8** Matrix: **Aqueous**

Date Sampled: **07/14/2014 1745**

Date Received: **07/19/2014**

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	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**5300**		**50**	**6.6**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**800**		**50**	**17**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**160**		**50**	**20**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**140**		**50**	**20**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**10000**		**200**	**66**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**3300**		**50**	**17**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
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"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-009**
Description: **02314-SB9**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1810**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/26/2014 0316	PMM2		52415

Parameter	CAS Number	Analytical Method	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	Run 1 % Recovery	Acceptance 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 ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-010**
Description: **02314-SB10**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1840**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2014 2326	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.19**	**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**	**0.49**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		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
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"

Client: **Terry Environmental Services, Inc.** Laboratory ID: **PG21012-011**

Description: **02314-SB11** Matrix: **Aqueous**

Date Sampled: **07/14/2014 1100**

Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/25/2014 2347	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	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		107	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"

Client: **Terry Environmental Services, Inc.**
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	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 0008	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	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		109	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
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: **PG21012-013**
Description: **02314-SB13**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1212**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	07/26/2014 0337	PMM2		52415

Parameter	CAS Number	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	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		107	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"

Client: **Terry Environmental Services, Inc.**
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
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"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-015**
Description: **02314-SB1D55**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1425**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 0029	PMM2		52415

Parameter	CAS Number	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	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		109	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"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-016**
Description: **02314-SB1D50**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1435**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 0050	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**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	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
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"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-017**
Description: **02314-SB1D45**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1445**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 0111	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.44**	**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**	**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	Run 1 % Recovery	Acceptance Limits
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 ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-018**
Description: **02314-SB1D55**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1610**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 0131	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**	**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	Run 1 % Recovery	Acceptance Limits
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"

Client: **Terry Environmental Services, Inc.**
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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 0152	PMM2		52415

Parameter	CAS Number	Analytical Method	Result	Q	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	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		109	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"

Client: **Terry Environmental Services, Inc.**
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	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 0213	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	Run 1 % Recovery	Acceptance 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 ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-021**
Description: **02314-SB3D55**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1735**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 1848	ALL		52428

Parameter	CAS Number	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 (MTBE)	**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	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		110	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"

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **PG21012-022**
Description: **02314-SB3D50**
Matrix: **Aqueous**
Date Sampled: **07/14/2014 1745**
Date Received: **07/19/2014**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/26/2014 1909	ALL		52428

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**48**		**1.0**	**0.13**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**5.2**		**1.0**	**0.33**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**0.89**	**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**	**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 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	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 ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Terry Environmental Services, Inc.**
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 1120	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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	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"

QC Summary

Volatile Organic Compounds by GC/MS - MB

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	% Rec	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
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ52415-003
Batch: 52415
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	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	Acceptance Limit
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
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
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	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		108	70-130

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

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

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: PG21012-014MD
Batch: 52415
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
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	% Rec	Acceptance 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
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	07/26/2014 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	Acceptance Limit
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		98	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 ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ52428-002
Batch: 52428
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	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	Acceptance Limit
Bromofluorobenzene		110	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		106	70-130

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

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ52510-002
Batch: 52510
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	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
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	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	Acceptance Limit
Bromofluorobenzene		110	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		106	70-130

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

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

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

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number 35006

Client Terry Environmental	**Report to Contact** Travis Darden	**Sampler (Printed Name)** Tyler Waterhorse	**Quote No.**
Address P.O. Box 25	**Telephone No. / Fax No. / Email** tdarden@terryenvironmental.com	**Waybill No.**	**Page** 1 of 3
City Summerville **State** SC **Zip Code** 29484	**Preservative** 1. Unpres. 2. NaOH/ZnA 3. H_2SO_4 4. HNO_3 5. HCL 6. Na Thio. 7. NaOH		**Number of Containers** 3 **Bottle (See instructions on back)** A
Project Name Windsor Mart			PG21012
Project Number 2171.9A	**P.O Number**		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix GW	DW	WW	S	Other	Analysis BTEX, MTBE	Number of Containers
02314-SB1	7/11/14	1240	G	X					X	3
02314-SB2		1310								
02314-SB3		1337								
02314-SB4		1400								
02314-SB5		1420								
02314-SB6		1500								
02314-SB7		1535								
02314-SB8		1745								
02314-SB9		1810								
02314-SB10		1840								

Turn Around Time Required (Prior lab approval required for expedited TAT): ☒ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

	Date	Time		Date	Time
1. Relinquished by Sampler	7/18/14	1330	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by Fedex	7-19-14	0836	4. Laboratory Received by Kelly Hall	7-21-14	0836

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY Received on Ice (Circle) ☐ Yes ☐ No ☐ Ice Pack | Receipt Temp. 3.2 °C | Temp. Blank ☐ Y / ☐ N

Shealy Environmental Services, Inc.
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Level I Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

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SHEALY **Chain of Custody Record** **Number** 35008

Client: Terry Environmental	Report to Contact: Travis Darden	Sampler (Printed Name): Tyler Waterhouse	Quote No.
Address: P.O. Box 25	Telephone No. / Fax No. / Email: tdarden@terryenvironmental.com	Waybill No.	Page 2 of 3
City: Summerville State: SC Zip Code: 29484	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		Number of Containers / Bottle (See Instructions on back) / Preservative
Project Name: Windsor Mart			PG21012
Project Number: 2171.9A	P.O Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis: BTEX, MN		
02314-SB11	7/16/14	1100	G	X						3	
02314-SB12		1140									
02314-SB13		1212									
02314-SB14		1248									
02314-SB1D55		1425									
02314-SB1D50		1435									
02314-SB1D45		1445									
02314-SB2D55		1610									
02314-SB2D50		1620									
02314-SB2D45		1630									

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

QC Requirements (Specify):

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

	Date	Time		Date	Time
1. Relinquished by Sampler	7/18/14	1330	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: Fedex	7-19-14	0836	4. Laboratory Received by: Kelly Work	7-19-14	0836

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) [X] Yes [ ] No [ ] Ice Pack. Receipt Temp. 3.2 °C. Temp. Blank [ ] Y / [X] N

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Level 1 Report v2.1

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SHEALY **Chain of Custody Record** **Number** 35010

Client: Terry Environmental	Report to Contact: Travis Darden	Sampler (Printed Name): Tyler Watkins	Quote No.
Address: P.O. Box 25	Telephone No. / Fax No. / Email: tdarden@terryenvironmental.com	Waybill No.	Page: 3 of 3
City: Summerville / State: SC / Zip Code: 29484	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH		Number of Containers / Bottle (See Instructions on back) / Preservative
Project Name: Windsor Mart			PG21012
Project Number: 2171.9A	P.O Number		

| Sample ID / Description (Containers for each sample may be combined on one line) | Date | Time | G=Grab C=Composite | Matrix: GW | DW | WW | S | Other | Analysis: BTEX/MTBE | | |

Shealy Environmental Services, Inc.
Document Number: F-AD-026
Revision Number: 15

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

Sample Receipt Checklist (SRC)

Client: Terry Environmental Cooler Inspected by/date: KWP 7-21-14 Lot #: PG21012

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ 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?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 990 / 3.1 / 3.2 °C ___ / ___ / ___ °C ___ / ___ / ___ °C ___ / ___ / ___ °C Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor +0.1 °C Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☑	NA ☐	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☐	No ☑		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☑	No ☐	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc ...) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)			
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) using SR # _____.			
Sample(s) -015(1), -016(3), -017(3), -018(2), -020(3) were received with bubbles >6 mm in diameter.			
Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)			
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____ Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____			
Sample labels applied by: KWP Verified by: _____ Date: 7-21-14			

Comments:
-020(3), -021(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

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

PJ02028

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.

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
008	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
008	02314-MW12	Aqueous	tert-Amyl alcohol (TAA)	8260B	51		ug/L	13
008	02314-MW12	Aqueous	Benzene	8260B	0.38	J	ug/L	13
008	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

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)

Volatile Organic Compounds by GC/MS

Client: Terry Environmental Services, Inc.
Laboratory ID: PJ02028-001
Description: 02314-MW2R
Matrix: Aqueous
Date Sampled: 09/29/2014 1350
Date Received: 10/02/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	10/06/2014 1622	EH1		57580

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	6900		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	87	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	1600		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	330		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	8800		200	66	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		102	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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
1	5030B	8260B	1	10/06/2014 1237	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	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		95	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"

Volatile Organic Compounds by GC/MS

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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/06/2014 1259	EH1		57580

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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		95	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"

Volatile Organic Compounds by GC/MS

Client: Terry Environmental Services, Inc.
Laboratory ID: PJ02028-004
Description: 02314-MW8
Matrix: Aqueous
Date Sampled: 09/29/2014 1435
Date Received: 10/02/2014

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

Parameter	CAS 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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		101	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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
1	5030B	8260B	1	10/06/2014 1322	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	0.51	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	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		95	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"

Volatile Organic Compounds by GC/MS

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	Prep Date	Batch
1	5030B	8260B	1	10/06/2014 1344	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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	Prep Date	Batch
1	5030B	8260B	1	10/06/2014 1407	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	Q	Run 1 % Recovery	Acceptance 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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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
1	5030B	8260B	1	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		95	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"

Volatile Organic Compounds by GC/MS

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		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	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		102	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: Terry Environmental Services, Inc.
Laboratory ID: PJ02028-010
Description: 02314-MW14
Matrix: Aqueous
Date Sampled: 09/29/2014 1500
Date Received: 10/02/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	10/07/2014 1658	EH1		57689

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 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		103	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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	Prep Date	Batch
1	5030B	8260B	200	10/06/2014 1814	EH1		57580

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	5100		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	2800		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	750		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	120	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	5900		200	66	ug/L	1

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

Volatile Organic Compounds by GC/MS

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
1	5030B	8260B	1	10/06/2014 1452	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	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		100	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/06/2014 1514	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	Q	Run 1 % Recovery	Acceptance Limits
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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 Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: Terry Environmental Services, Inc.
Laboratory ID: PJ02028-015
Description: 02314-MW2R DUP
Matrix: Aqueous
Date Sampled: 09/29/2014 1352
Date Received: 10/02/2014

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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		95	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"

Volatile Organic Compounds by GC/MS

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

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		100	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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	Q	Run 1 % Recovery	Acceptance Limits
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
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"

Volatile Organic Compounds by GC/MS

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	1	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		95	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"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ57580-001
Batch: 57580
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	10/06/2014 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	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		89	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ57580-002
Batch: 57580
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ57580-002
Batch: 57580
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	52		1	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
Batch: 57580
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	970		1	97	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	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		94	70-130

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

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: PJ02028-011MS
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	% 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	% Rec	Acceptance Limit
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
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	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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MSD

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	% RPD Limit	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	% Rec	Acceptance Limit
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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ57689-002
Batch: 57689
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	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
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
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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

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

Volatile Organic Compounds by GC/MS - LCSD

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

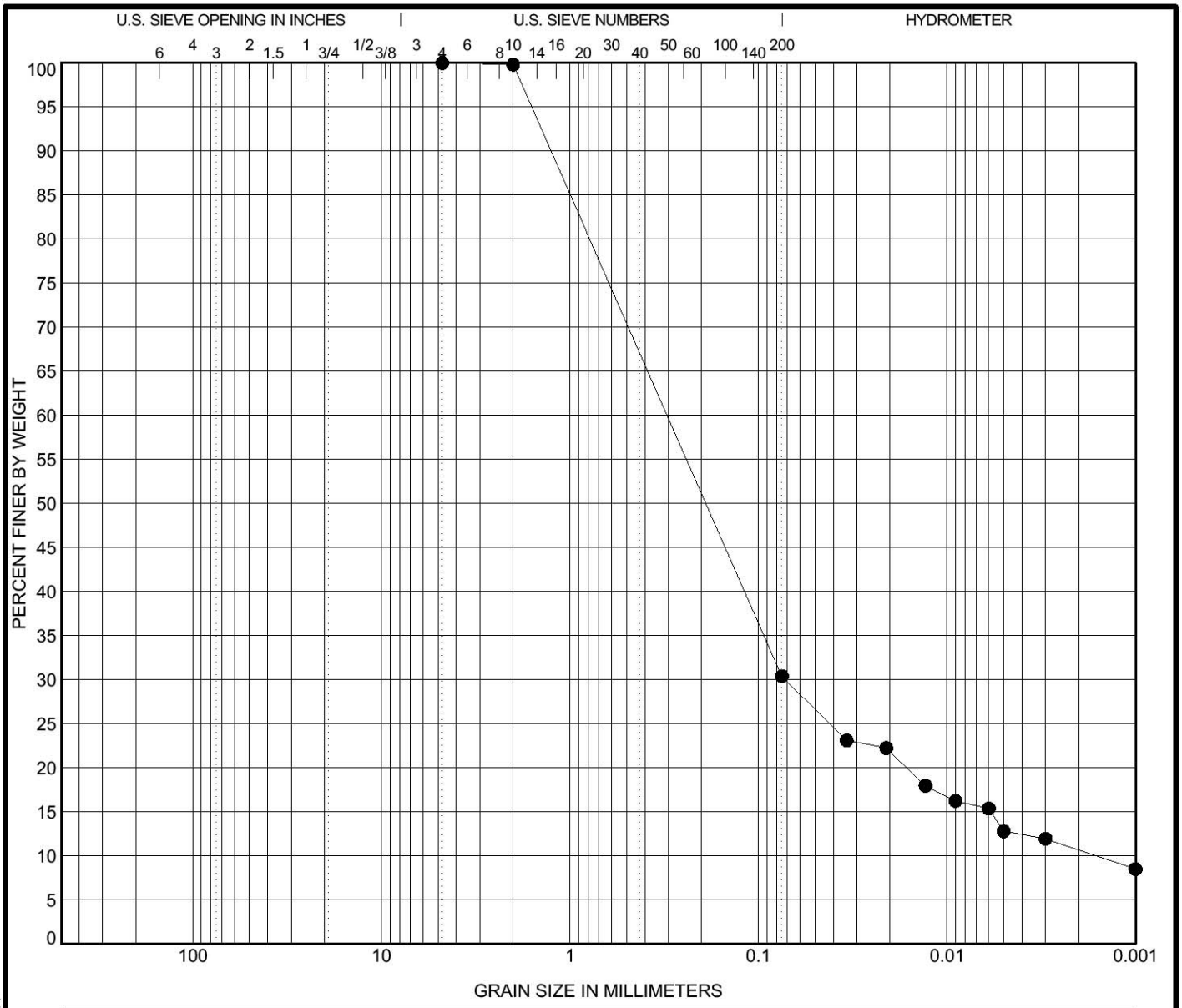
Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		92	70-130

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

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

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

Subcontracted Data



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI
● 02314 MW-9 15.0 ft	**SILTY SAND (SM), reddish brown**	--	--	--

Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	**4.75**	**0.304**	**0.072**	**0.002**	**0.0**	**69.6**	**19.7**	**10.7**

Percent Finer

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

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

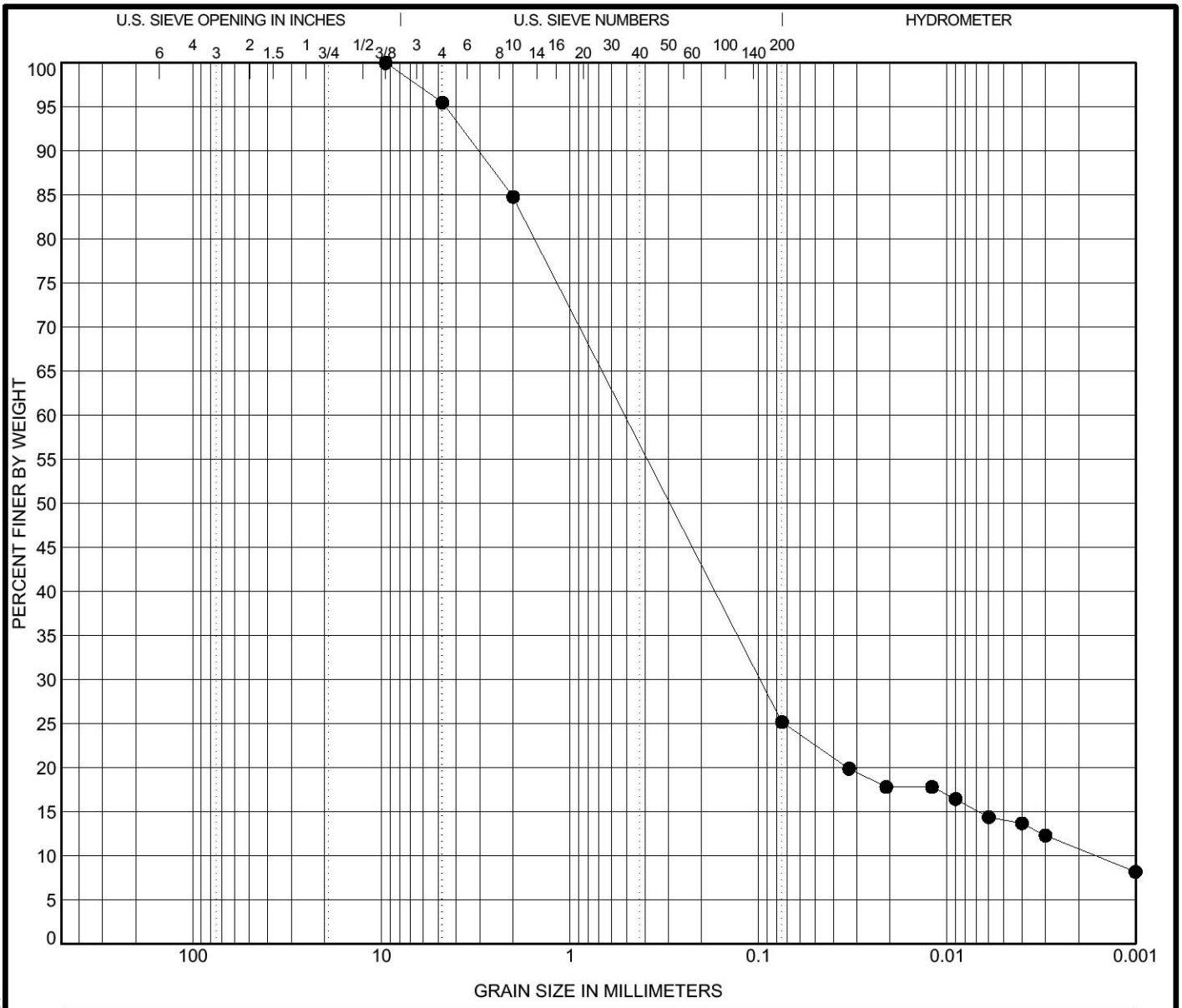
Schnabel ENGINEERING

GRADATION CURVE

Project: Shealy Laboratory
PJ02028
Cayce, SC

Contract: 08190058.00.241

SIEVE 1/SHEET HYDROMETERS-2014.GPJ SCHNABEL DATA TEMPLATE 2008 04 22.GDT 10/14/14



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description	LL	PL	PI
● 0214 DW-1 52.0 ft	**SILTY SAND (SM), trace gravel, light brown**	--	--	--

Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
ASTM D422	**9.5**	**0.51**	**0.098**	**0.002**	**4.5**	**70.3**	**14.4**	**10.8**

Percent Finer

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

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

Schnabel ENGINEERING

GRADATION CURVE

Project: Shealy Laboratory
PJ02028
Cayce, SC

Contract: 08190058.00.242

SIEVE 1/SHEET HYDROMETERS-2014.GPJ SCHNABEL DATA TEMPLATE 2008 04 22.GDT 10/14/14

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

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 41002

Client Terry Environmental Services	**Report to Contact** Tim Mettler	**Telephone No. / E-mail** (843) 873-8200	**Quote No.**
Address P.O. Box 25	**Sampler's Signature** x Jennings Kerr	**Analysis (Attach list if more space is needed)**	**Page** 1 of 2
City Summerville **State** SC **Zip Code** 29484	**Printed Name** Jennings Kerr		PJ02028
Project Name Windsor Mart			
Project No. 2171.9A	**P.O. No.**		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab	Comp	Matrix: Aqueous	Matrix: Soil	Matrix: Sed.	Matrix: Non-Aqueous	No of Containers by Preservative Type: Ethanol	No of Containers by Preservative Type: H2SO4	No of Containers by Preservative Type: HNO3	No of Containers by Preservative Type: HCl	No of Containers by Preservative Type: NaOH	No of Containers by Preservative Type: Ascorbic Acid	BTEX, MtBE, Naph, 1,2 DCA, EDB	Remarks / Cooler I.D.
02314-MW2R	9/29/14	1350	G		X							X			3	
02314-MW5	9/29/14	1600														
02314-MW6		1315														
02314-MW8		1435														
02314-MW9		1628														
02314-MW10		1615														
02314-MW11		1210														
02314-MW12		1243														
02314-MW13		1520														
02314-MW14		1500														

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☒ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Jennings Kerr	10-7-14	1800	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: FedEx	10/8/14	0920	4. Laboratory received by	10/8/14	0920

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY Received on Ice (Circle) Yes No Ice Pack — Receipt Temp 1.3 °C

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

SHEALY ENVIRONMENTAL SERVICES, INC.

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

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

Client Terry Environmental	**Report to Contact** Tim Mettlen	**Telephone No. / E-mail** 843-873-8200	**Quote No.**
Address P.O. Box 75	**Sampler's Signature** X Jennings Kerr	**Analysis (Attach list if more space is needed)**	**Page** 2 of 2
City Summerville **State** SC **Zip Code** 29484	**Printed Name** Jennings Kerr		PJ02028
Project Name Windsor Mart			
Project No. 7171.9A	**P.O. No.**		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	Grab or Composite	Matrix: Aqueous	Matrix: Soil	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	HNO3	H2SO4	HCl	NaOH	Na2S2O3	BTEX, Naphth, MTBE by DCA; EDB, EFH	Grain Size Analysis	Remarks / Cooler I.D.
02314-MW15	9/29/14	1333	G	X						X			3		
02314-DW1	9/29/14	1649													
02314-SW1	9/26/14	0940													
02314-SW2	9/26/14	1000													
02314-MW2R DUP	9/29/14	1352													
02314-FB1	9/26/14	0800													
02314-FB2	9/29/14	1115													
02314-TB	9/29/14												2		
02314-MW9	9/25/14	1500			X		X							1	
02314-DW1	9/24/14	1300			X		X							1	

Turn Around Time Required (Prior lab approval required for expedited TAT.) [X] Standard [ ] Rush (Specify)

Sample Disposal [ ] Return to Client [X] Disposal by Lab

Possible Hazard Identification [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Jennings Kerr	10.1.14	1800	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: FedEx	10/2/14	0920	4. Laboratory received by	10/2/14	0920

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 1.3 °C

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

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

Level I Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

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)

Client: Jerry Ray Cooler Inspected by/date: mam / 10/2/14 Lot #: RJ02028

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ 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?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
/09/13 °C ___/___/___ °C ___/___/___ °C ___/___/___ °C

Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: 0.4 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☐	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,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: _____

Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR#

Sample labels applied by: mam Verified by: mam Date: 10/2/14

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

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

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.

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.

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

Sample	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	8260B	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)

Client: **Terry Environmental Services, Inc.**
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	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/14/2014 0134	PMM2		60852

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		89	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
J = Estimated result < PQL and ≥ MDL
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"

Client: **Terry Environmental Services, Inc.**
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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/14/2014 0155	PMM2		60852

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
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"

Client: **Terry Environmental Services, Inc.**
Description: **02314-MW19**
Date Sampled: **11/06/2014 1711**
Date Received: **11/06/2014**

Laboratory ID: **PK06067-003**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	11/14/2014 0404	PMM2		60852

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	ND		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-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**	**78000**		**20000**	**6600**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1500**		**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**	**15000**		**200**	**66**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**8300**		**200**	**66**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		94	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
J = Estimated result < PQL and ≥ MDL
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"

Client: **Terry Environmental Services, Inc.**
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	MDL	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-Dimethyl-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 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
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"

Client: **Terry Environmental Services, Inc.**
Description: **02314-MW19 Dup**
Date Sampled: **11/06/2014 1713**
Date Received: **11/06/2014**

Laboratory ID: **PK06067-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	11/14/2014 1850	EH1		60896

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	ND		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-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**	**87000**		**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**	**340**		**200**	**80**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1300	ug/L	1
Toluene	**108-88-3**	**8260B**	**15000**		**200**	**66**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**9000**		**200**	**66**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		93	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
J = Estimated result < PQL and ≥ MDL
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"

Client: **Terry Environmental Services, Inc.**
Description: **02314-FB1**
Date Sampled: **11/06/2014 1640**
Date Received: **11/06/2014**

Laboratory ID: **PK06067-006**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/14/2014 1155	EH1		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
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		89	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
J = Estimated result < PQL and ≥ MDL
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"

Client: **Terry Environmental Services, Inc.**
Description: **02314-TB**
Date Sampled: **11/06/2014**
Date Received: **11/06/2014**

Laboratory ID: **PK06067-007**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/14/2014 1216	EH1		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
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
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"

QC Summary

Volatile Organic Compounds by GC/MS - MB

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		94	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ60852-002
Batch: 60852
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	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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ60852-002
Batch: 60852
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	52		1	104	70-130	11/13/2014 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	Acceptance Limit
Bromofluorobenzene		91	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		107	70-130

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

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

Volatile Organic Compounds by GC/MS - LCS

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

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

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

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

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

Client: Terry Environmental
Address: P.O Box 25
City: Summerville | State: SC | Zip Code: 29484
Project Name: Windsor Mart
Project No.: 2217.9A
P.O. No.:
Report to Contact: Tim Mullen
Sampler's Signature: x
Printed Name: Adam Knight
Telephone No. / Email: (843) 873-8200
Quote No.:
Analysis (Attach list if more space is needed): BTEX + MTBE, 1,2 DCA, Oxy
Page 1 of 1

PK06067

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	# of Containers	Matrix: Soil	Matrix: Water	Matrix: Other	No. of Containers by Preservative Type: HCl	Remarks / Cooler I.D.
02314 - MW 17	11/6/2014	1645	X	X			X	2
02314 - MW 18		1656						3
02314 - MW 19		1711						
02314 - MW 20		1730						
02314 - MW 19 Dup		1713						
02314 - FB 1		1640						2
02314 - TB								

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)
Sample Disposal: ☐ Return to Client ☐ Disposal by Lab
Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by	11/6/14	2010	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	11/6/14	2010

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack
Receipt Temp: 1.1 °C

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

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

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: Terry Env Cooler Inspected by/date: MM 11/06/14 Lot #: 8K06062

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ 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?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
1 / 1.1 °C ___ / ___ / ___ °C ___ / ___ / ___ °C ___ / ___ / ___ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: 0.0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (≤0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc. ,) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ _____were received incorrectly preserved and were adjusted accordingly in sample receiving with _____(H_2SO_4,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: _____

Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR#_____

Sample labels applied by: MC Verified by: MC Date: 11/6/14

Comments:

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

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

Case Narrative
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.

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	TB	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)

Volatile Organic Compounds by GC/MS

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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2014 1806	EH1		61566

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		94	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2014 1829	EH1		61566

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

Volatile Organic Compounds by GC/MS

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
1	5030B	8260B	1	11/21/2014 1421	EH1		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	Q	Run 1 % Recovery	Acceptance Limits
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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: Terry Environmental Services, Inc.
Laboratory ID: PK19024-004
Description: TB
Matrix: Aqueous
Date Sampled: 11/19/2014
Date Received: 11/19/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/21/2014 1443	EH1		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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		97	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ61464-001
Batch: 61464
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	11/21/2014 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	Acceptance Limit
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		95	70-130

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

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

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

Volatile Organic Compounds by GC/MS - LCS

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"

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

Volatile Organic Compounds by GC/MS - MB

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	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		93	70-130

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

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

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

Volatile Organic Compounds by GC/MS - LCS

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

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

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

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

SHEALY Chain of Custody Record

Number 42218

Client: Terry Environmental	Report to Contact: Tim Mattlen	Telephone No. / E-mail: tmattlen@terryenvironmental.com	Quote No.
Address: P.O Box 25	Sampler's Signature: x Adam Knight	Analysis (Attach list if more space is needed)	Page 1 of 1
City: Summerville	State: SC	Zip Code: 29484	
Project Name: Windsor Mart	Printed Name: Adam Knight		PK19024
Project No.: 2171.9A	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab / Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Oil / Sludge	No of Containers by Preservative Type: Unpres	HCl	HNO3	NaOH	H2SO4	BTEX, Naph, 1,2-DCA, Oxy	Remarks / Cooler I.D.
~~MW~~ 02314-MW16	11/9/14		C	X				X				W	
02314-MW 16 Dup	"							"				"	
02314-FB 1	"							"				"	
TB	"												

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Adam Knight	11/19/14	1245	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	11/19/14	1245

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 2.2 °C
1944

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

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

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

Level 1 Report v2.1

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 16

Replaces Date: 07/15/14
Effective Date: 11/07/14

Sample Receipt Checklist (SRC)

Client: Terry Env. Cooler Inspected by/date: CMT / 11/19/14 Lot #: PK19024

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ 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?

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: -0.1 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☑	CMT 11/19/14	8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	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.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) using SR #_____.

Sample(s)_____ were received with bubbles >6 mm in diameter.

Sample(s)_____ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____

Sample(s)_____ were not received at a pH of <2 and were adjusted accordingly using SR#_____

Sample labels applied by: CMT Verified by: _____ Date: 11/19/14

Comments:
Times taken from bottle labels.

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

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.

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.

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
008	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

Sample	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
008	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)

Client: Terry Environmental Services, Inc.
Description: 02314-MW21
Date Sampled: 02/02/2015 1816
Date Received: 02/04/2015

Laboratory ID: QB04023-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/09/2015 1542	EH1		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		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	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	02/06/2015 1719	MEM	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	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		92	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0218	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.0067	J	0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc.
Description: 02314-MW22
Date Sampled: 02/02/2015 1744
Date Received: 02/04/2015

Laboratory ID: QB04023-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/09/2015 1605	EH1		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		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		98	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	02/06/2015 1729	MEM	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	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		134	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0244	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.019		0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc.
Description: 02314-MW23
Date Sampled: 02/02/2015 1800
Date Received: 02/04/2015

Laboratory ID: QB04023-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	02/09/2015 1715	EH1		67278

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	2700		2000	670	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	20	ug/L	1
Benzene	71-43-2	8260B	1600		100	13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		100	15	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	100	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	3300	ug/L	1
Ethylbenzene	100-41-4	8260B	540		100	33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1
Naphthalene	91-20-3	8260B	ND		100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	670	ug/L	1
Toluene	108-88-3	8260B	5000		100	33	ug/L	1
Xylenes (total)	1330-20-7	8260B	4000		100	33	ug/L	1

Surrogate	Q	Run 1 % 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	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/06/2015 1739	MEM	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	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		87	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0249	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.016		0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc.
Description: 02314-MW24
Date Sampled: 02/02/2015 1638
Date Received: 02/04/2015

Laboratory ID: QB04023-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/09/2015 1629	EH1		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		10	0.20	ug/L	1
Benzene	71-43-2	8260B	2.1		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.81	J	1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		98	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	02/06/2015 1750	MEM	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	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0253	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.0042	J	0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc.
Description: 02314-MW25
Date Sampled: 02/02/2015 1709
Date Received: 02/04/2015

Laboratory ID: QB04023-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/09/2015 1652	EH1		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		10	0.20	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		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		98	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	02/06/2015 1800	MEM	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		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		87	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0257	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.034		0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc.
Description: 02314-MW26
Date Sampled: 02/02/2015 1900
Date Received: 02/04/2015

Laboratory ID: QB04023-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/10/2015 0114	PMM2		67342

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		103	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	02/06/2015 1810	MEM	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	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0302	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc.
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	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/10/2015 0135	PMM2		67342

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	24		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	3.1		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	3.4		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % 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	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/06/2015 1820	MEM	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	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		96	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0306	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.0098	J	0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc. | Laboratory ID: QB04023-008
Description: 02314-DW2 | Matrix: Aqueous
Date Sampled: 02/02/2015 1846
Date Received: 02/04/2015

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/10/2015 0157	PMM2		67342

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

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

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/06/2015 1830	MEM	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		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0310	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.013		0.010	0.0021	mg/L	1

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

Client: Terry Environmental Services, Inc. | Laboratory ID: QB04023-009
Description: 02314-DW3 | Matrix: Aqueous
Date Sampled: 02/02/2015 1612
Date Received: 02/04/2015

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/10/2015 0219	PMM2		67342

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	24		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	46		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	0.61	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	1.3		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	7.8		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	24		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		104	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	02/06/2015 1841	MEM	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	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0315	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	ND		0.010	0.0021	mg/L	1

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

Client: 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

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/10/2015 0241	PMM2		67342

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		102	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	02/06/2015 1851	MEM	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		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

ICP-AES

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010C	1	02/06/2015 0319	CDF	02/05/2015 1136	67002

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Lead	7439-92-1	6010C	0.012		0.010	0.0021	mg/L	1

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

Client: 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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/09/2015 2223	PMM2		67341

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/06/2015 1922	MEM	02/05/2015 1445	66987

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

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

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the 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"

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	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/09/2015 2246	PMM2		67341

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		97	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"

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

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: 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	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	6.7	ug/L	02/09/2015 2134
tert-Amyl methyl ether (TAME)	ND		1	10	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	20	1.0	ug/L	02/09/2015 2134
Ethanol	ND		1	100	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	20	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	Acceptance Limit
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		90	70-130
Toluene-d8		98	70-130

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

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67341-002
Batch: 67341
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	820		1	82	70-130	02/09/2015 2033
tert-Amyl methyl ether (TAME)	50	46		1	91	70-130	02/09/2015 2033
Benzene	50	46		1	92	70-130	02/09/2015 2033
tert-Butyl formate (TBF)	250	220		1	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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: 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	Acceptance Limit
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		104	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ67342-002
Batch: 67342
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	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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

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

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

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"

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

ICP-AES - MB

Sample ID: QQ67002-001
Batch: 67002
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/05/2015 1136

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Lead	ND		1	0.010	0.0021	mg/L	02/06/2015 0117

ICP-AES - LCS

Sample ID: QQ67002-002
Batch: 67002
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/05/2015 1136

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.41		1	102	80-120	02/06/2015 0121

ICP-AES - MS

Sample ID: QB04023-001MS
Batch: 67002
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/05/2015 1136

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.0067	0.40	0.39		1	97	75-125	02/06/2015 0223

ICP-AES - MSD

Sample ID: QB04023-001MD
Batch: 67002
Analytical Method: 6010C
Matrix: Aqueous
Prep Method: 3005A
Prep Date: 02/05/2015 1136

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.0067	0.40	0.39		1	96	0.12	75-125	20	02/06/2015 0227

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

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

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

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

SHEALY Chain of Custody Record

Number 45247

Client: Terry Environmental	Report to Contact: Tim Methlen	Telephone No. / E-mail: 843-873-8200	Quote No.
Address: P.O. Box 23	Sampler's Signature: X Jimmy Knee	Analysis (Attach list if more space is needed)	Page 1 of 2
City: Summerville State: SC Zip Code: 29484	Printed Name:		QB04023
Project Name: Windsor Mast			

Project No.	P.O. No.		Grab / Composite	Matrix: Aqueous / Solid / Non-Aqueous	No of Containers by Preservative Type: Unpres. / H2SO4 / HNO3 / HCl / NaOH / ZnAc/NaOH	BTEX, Naph, MTBE, Oxy, EDB, 1,2 DCA	EDB	Lead	Remarks / Cooler I.D.
Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time							
02314-MW21	2/2/15	1816	G	X	6	3	3	1	
02314-MW22		1744							
02314-MW23		1800							
02314-MW24		1638							
02314-MW25		1709							
02314-MW26		1900							
02314-MW27		1920							
02314-DW2		1846							
02314-DW3		1612							
02314-DW2DUP		1848							

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Jimmy Knee	2/4/15	1100	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	2/4/15	1054 1100

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack Receipt Temp. 1.9 °C Temp blank

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

Document Number: F-AD-133 Effective Date: 06-01-2014

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

Level 1 Report v2.1

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106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
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Chain of Custody Record

Number 45248

Client: Terry Environmental	Report to Contact: Tim Mellen	Telephone No. / E-mail: 843-873-8200	Quote No.
Address: P. O. Box 25	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 2 of 2
City: Summerville	State: SC	Zip Code: 29484	Printed Name:		QB04023
Project Name: Windsor Mast			
Project No.: 2171.9A	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# of Containers	Matrix: Aqueous	Matrix: Solid	Matrix: Other (Specify)	No. of Containers by Preservative Type: Organic	HNO3	NaOH	H2SO4	Other	Ice	BTEX, Naphthalene, MTBE, EDB, 1,2-DCA by 8260B	EMB	Remarks / Cooler I.D.
02314-EB	2-2-15	1550	6	X							6		3	3	
02314-TB	1	/	6	X							2		2		

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	2/4/15	1100	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	2/4/15	1054 / 1100

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 1.9 °C tempblank

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

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

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com
Level 1 Report v2.1
SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
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 Env. Cooler Inspected by/date: CMT / 2/4/15 Lot #: 430423

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ 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?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
2.0 / 1.9 °C / / °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: #4 IR Gun Correction Factor: -0.1 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☒	No ☑	CMT 2/4/15	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐ CMT 2/4/15	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,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: _____
Sample(s)_____ were not received at a pH of <2 and were adjusted accordingly using SR#_____

Sample labels applied by: LNM Verified by: CMT Date: 2/4/15

Comments:

APPENDIX C

Tax Map
(Not Applicable)

APPENDIX D

Soil Boring/Field Screening Logs/ SCDHEC 1903 Forms

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB1

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 19.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
19.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 15.0 ft. and 19.0 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 19.0 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Beard

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB2

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB3

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB4

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

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Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB5

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S. Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

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1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB6

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
02314-SB7

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S. Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB8

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S. Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB9

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB10

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-14-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/14/14
20.0 ft. Date Completed: 07/14/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Beard

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB11

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-16-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/16/14
20.0 ft. Date Completed: 07/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John A Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB12

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-16-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/16/14
20.0 ft. Date Completed: 07/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S. Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brewer

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
02314-SB13

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-16-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/16/14
20.0 ft. Date Completed: 07/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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)
14 SAND DUNE LANE
ISLE OF PALMS, SC 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brame

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
02314-SB14

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 20.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-16-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/16/14
20.0 ft. Date Completed: 07/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 16.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S. Kerr (Well Driller) Date: 3/6/15

If D Level Driller, provide supervising driller's name:
Randy Beard

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB1D

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 55.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-16-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/16/14
55.0 ft. Date Completed: 07/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 51.0 ft. and 55.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S. Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brame

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB2D

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 55.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-16-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/16/14
55.0 ft. Date Completed: 07/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 51.0 ft. and 55.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S. Kerr (Well Driller) Date: 3/6/15

If D Level Driller, provide supervising driller's name: Randy Brand

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON (last) CHARLES (first)
Address: P.O. BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29560
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-SB3D

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 55.0 ft. to SURFACE ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TEMPORARY WELL WAS		
INSTALLED USING A DPT RIG		
AND A SCREEN POINT 16		
GROUNDWATER SAMPLER.		
LOCATION WAS ABANDONED		
AFTER SAMPLING 07-16-14.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other - DPT

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ ~~Monitor Well~~ GRAB/H20 ☐ Replacement

9. WELL DEPTH (completed) Date Started: 07/16/14
55.0 ft. Date Completed: 07/16/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 1.50"
Type: ☐ PVC ☐ Galvanized ☑ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: STAINLESS STEEL Diam.: 1"
Slot/Gauge: 0.004 Length: 4'
Set Between: 51.0 ft. and 55.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☑ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

TERRY ENVIRONMENTAL SERVICES

Clients First Always™

WWW.TERRYENVIRONMENTAL.COM

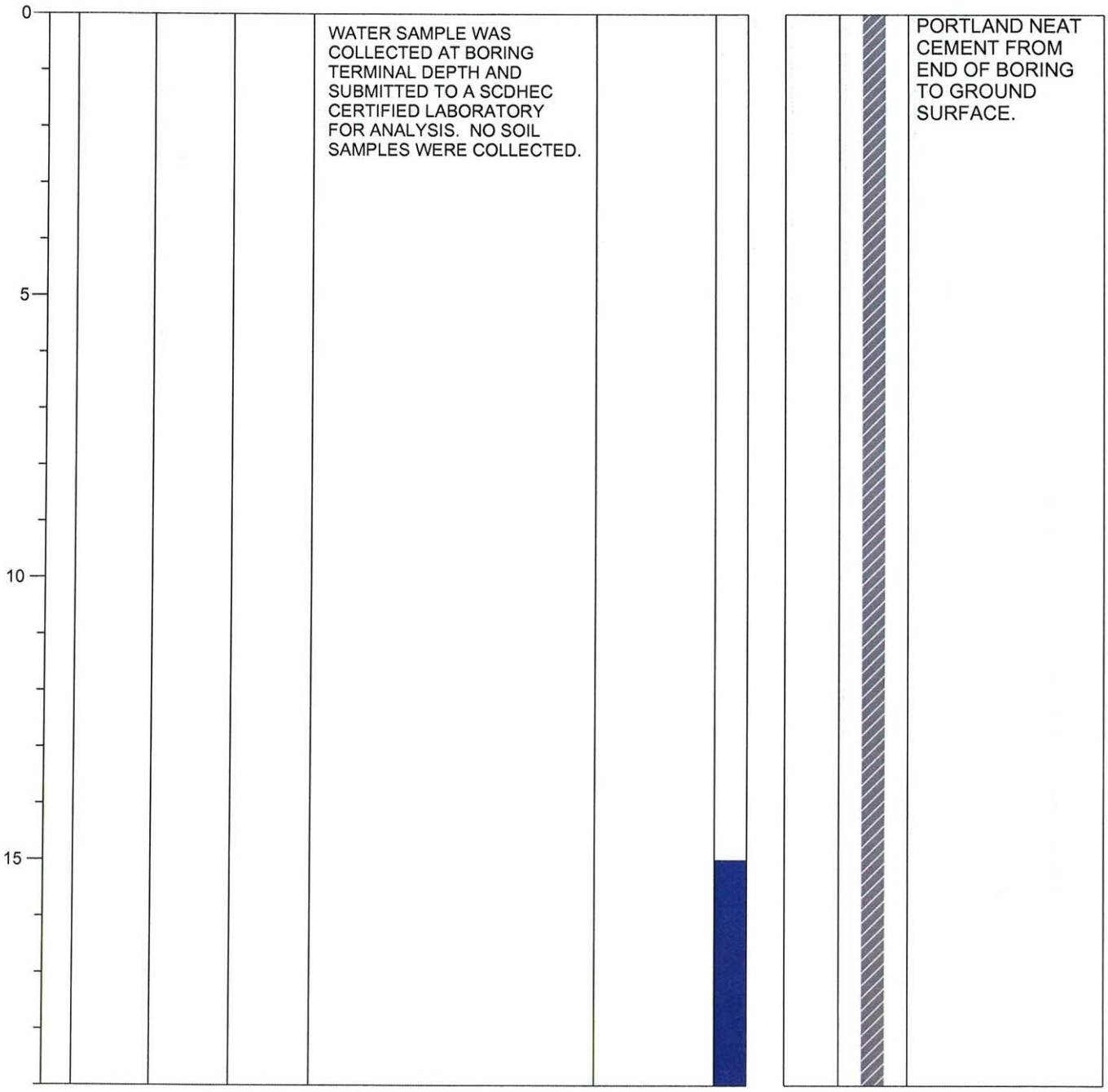
SOIL BORING LOG

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

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
SAMPLE RETRIEVED: 15-19 FT BGS

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



Total Depth = 19 FT BGS

TERRY ENVIRONMENTAL SERVICES
Clients First Always™
WWW.TERRYENVIRONMENTAL.COM

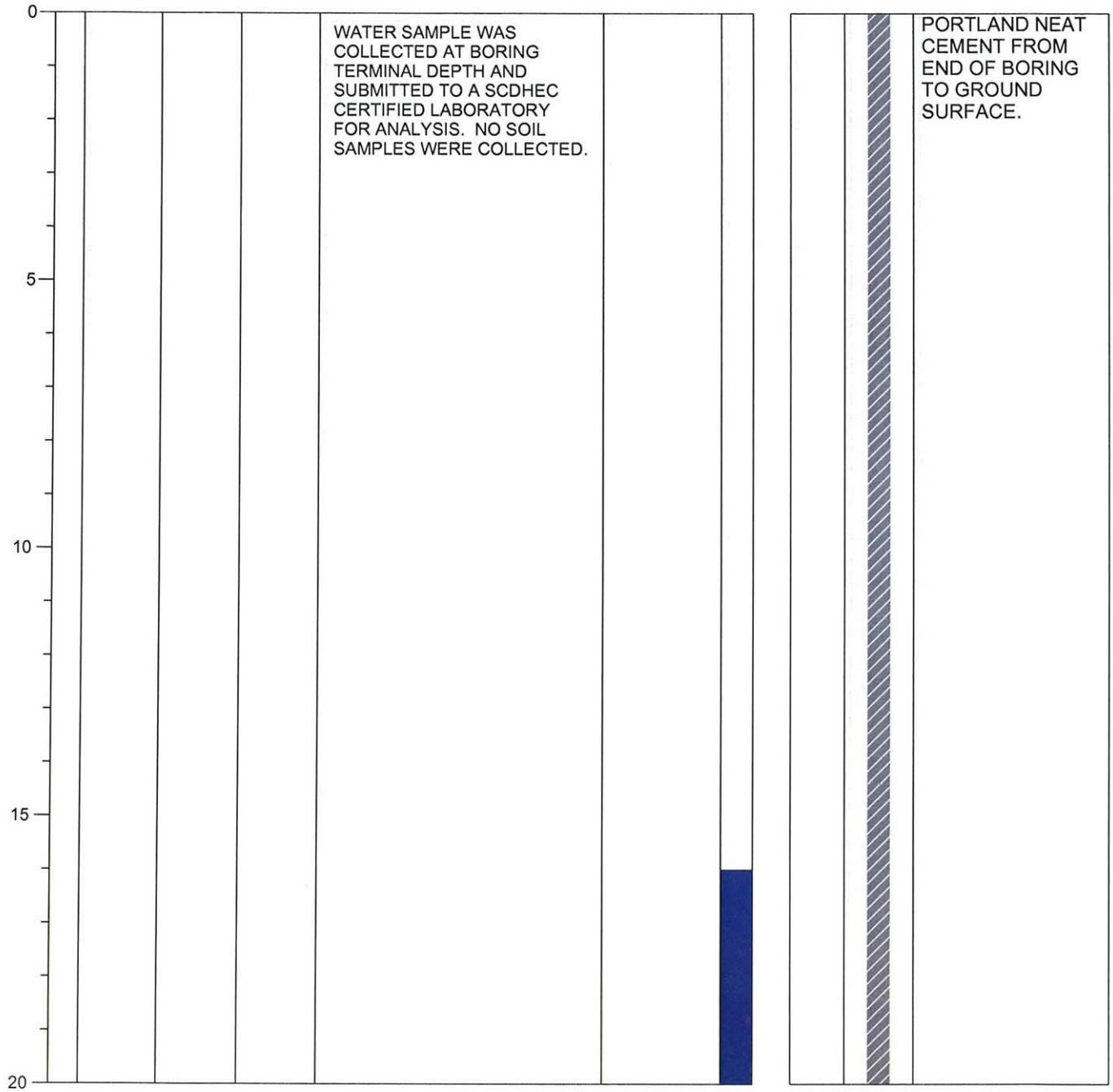
SOIL BORING LOG

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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



TERRY ENVIRONMENTAL SERVICES

Clients First Always™

WWW.TERRYENVIRONMENTAL.COM

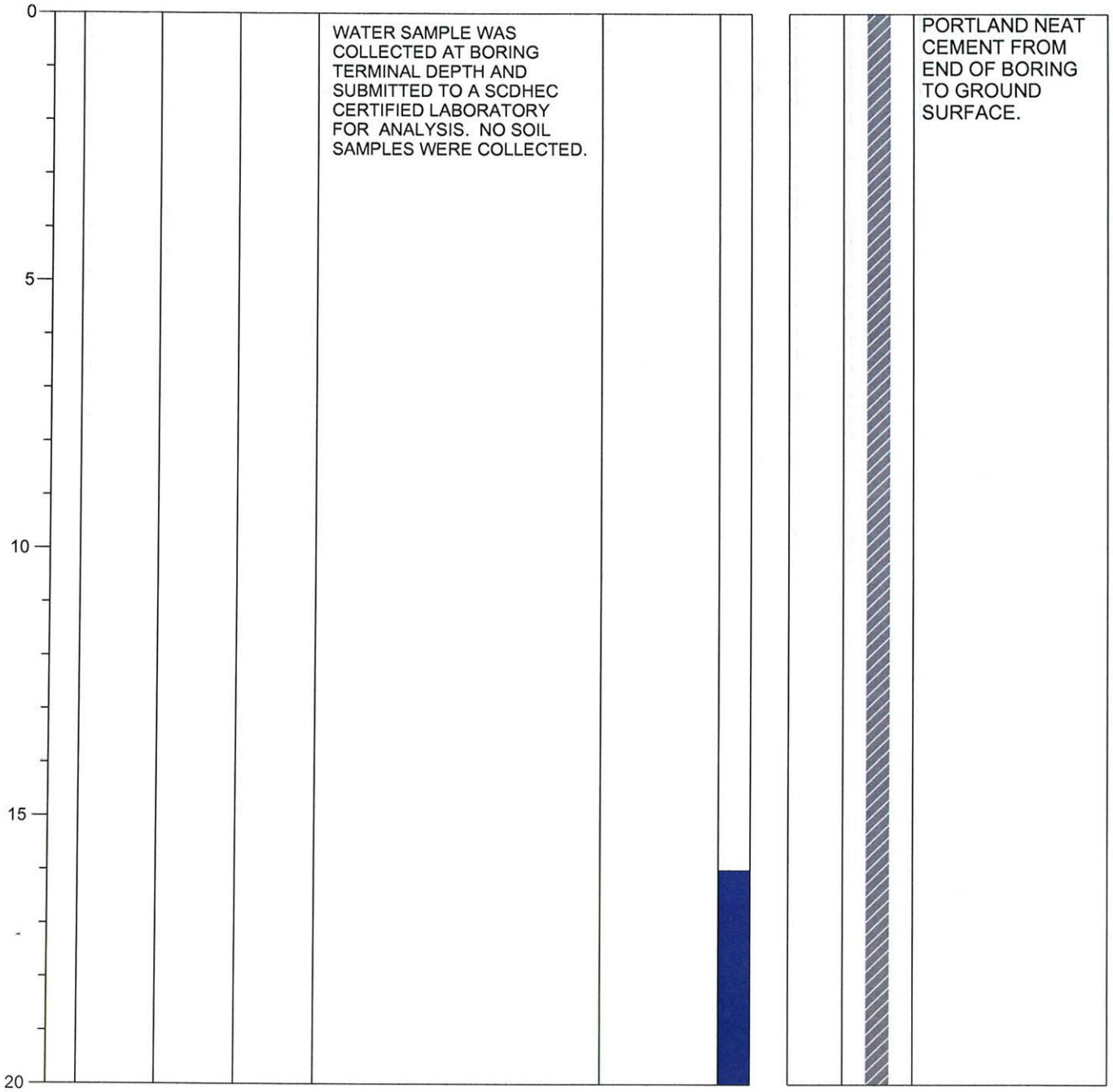
SOIL BORING LOG

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: 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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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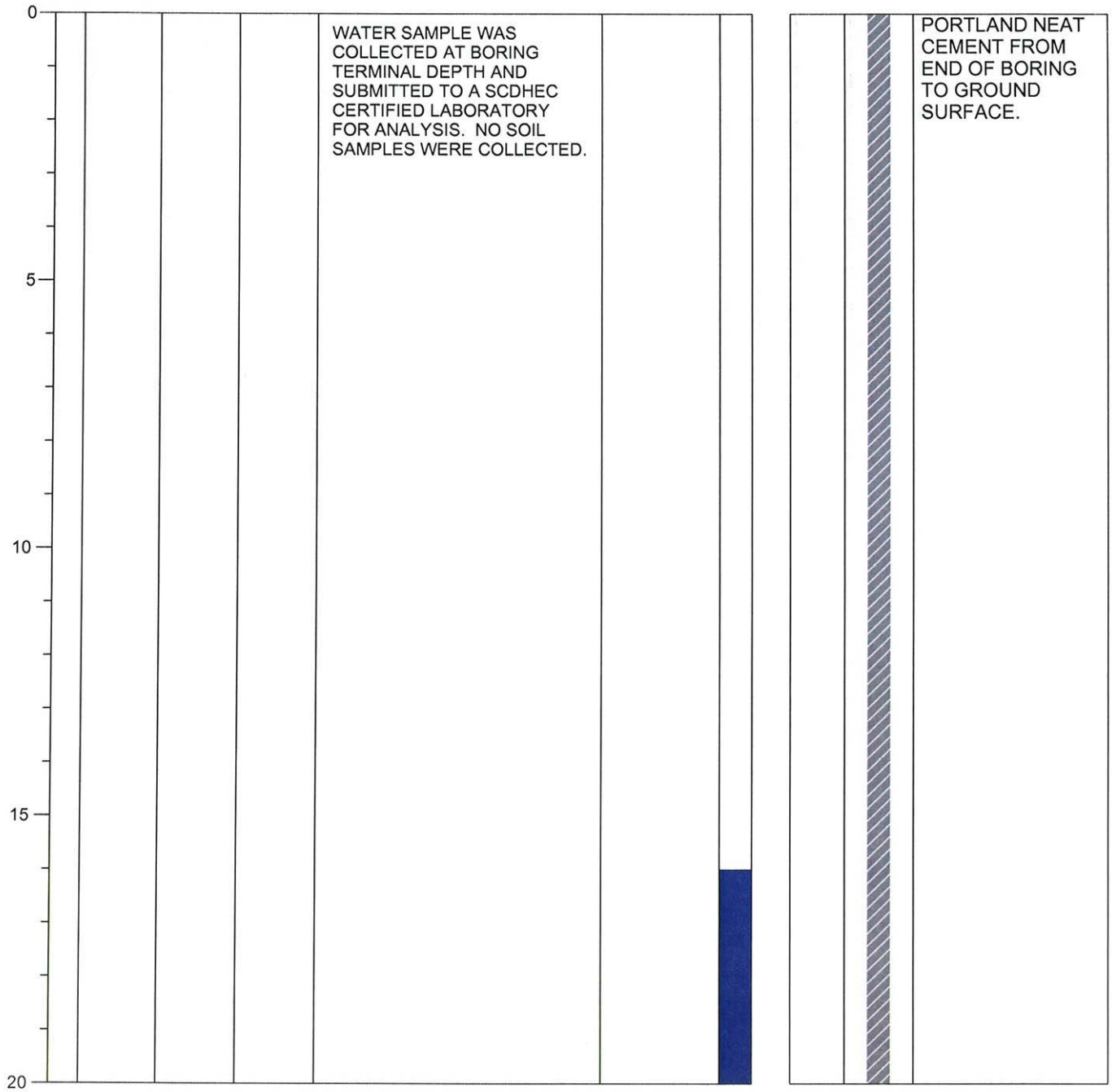
SOIL BORING LOG

SOIL BORING #: 02314-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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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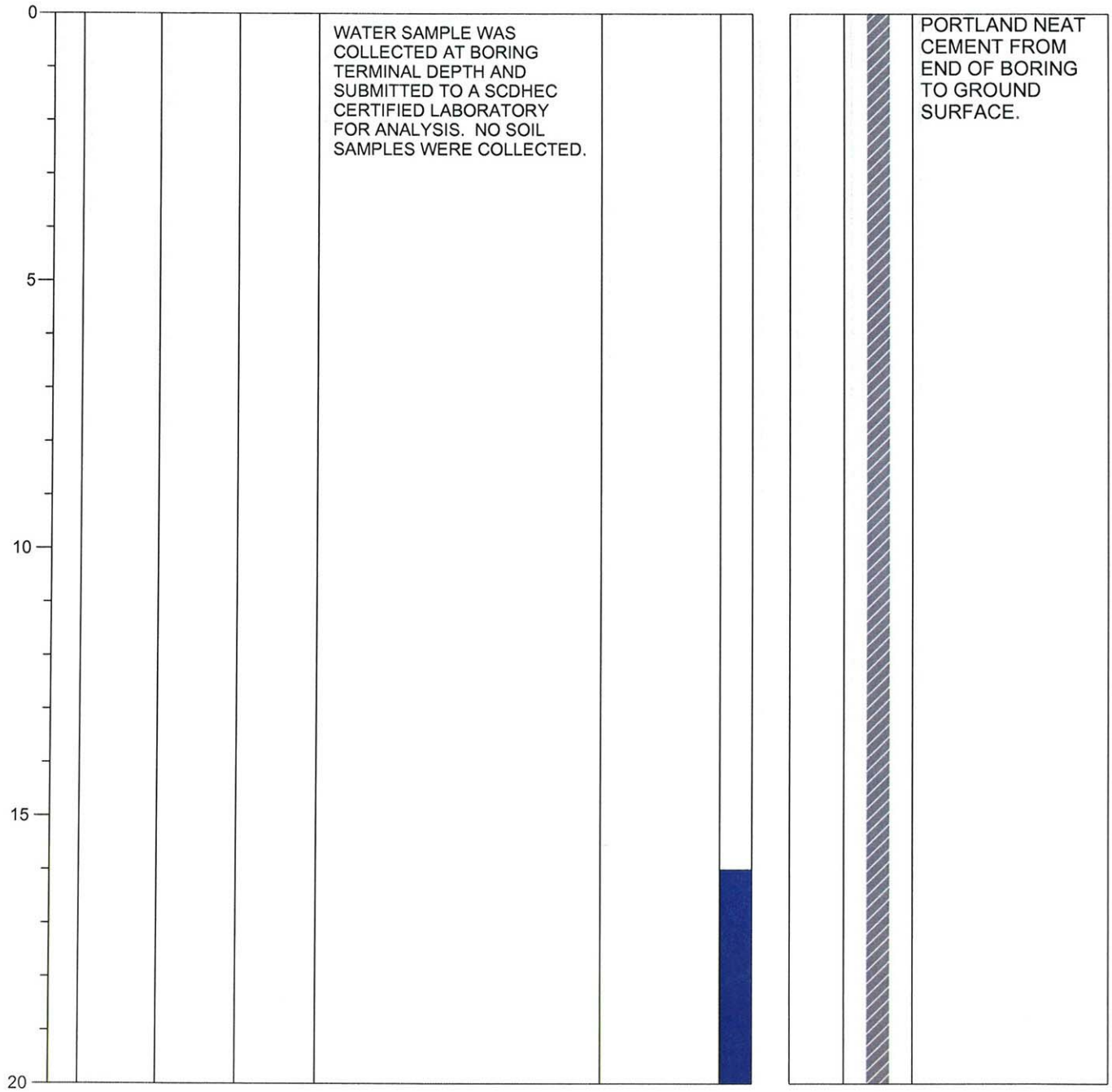
SOIL BORING LOG

SOIL BORING #: 02314-SB5
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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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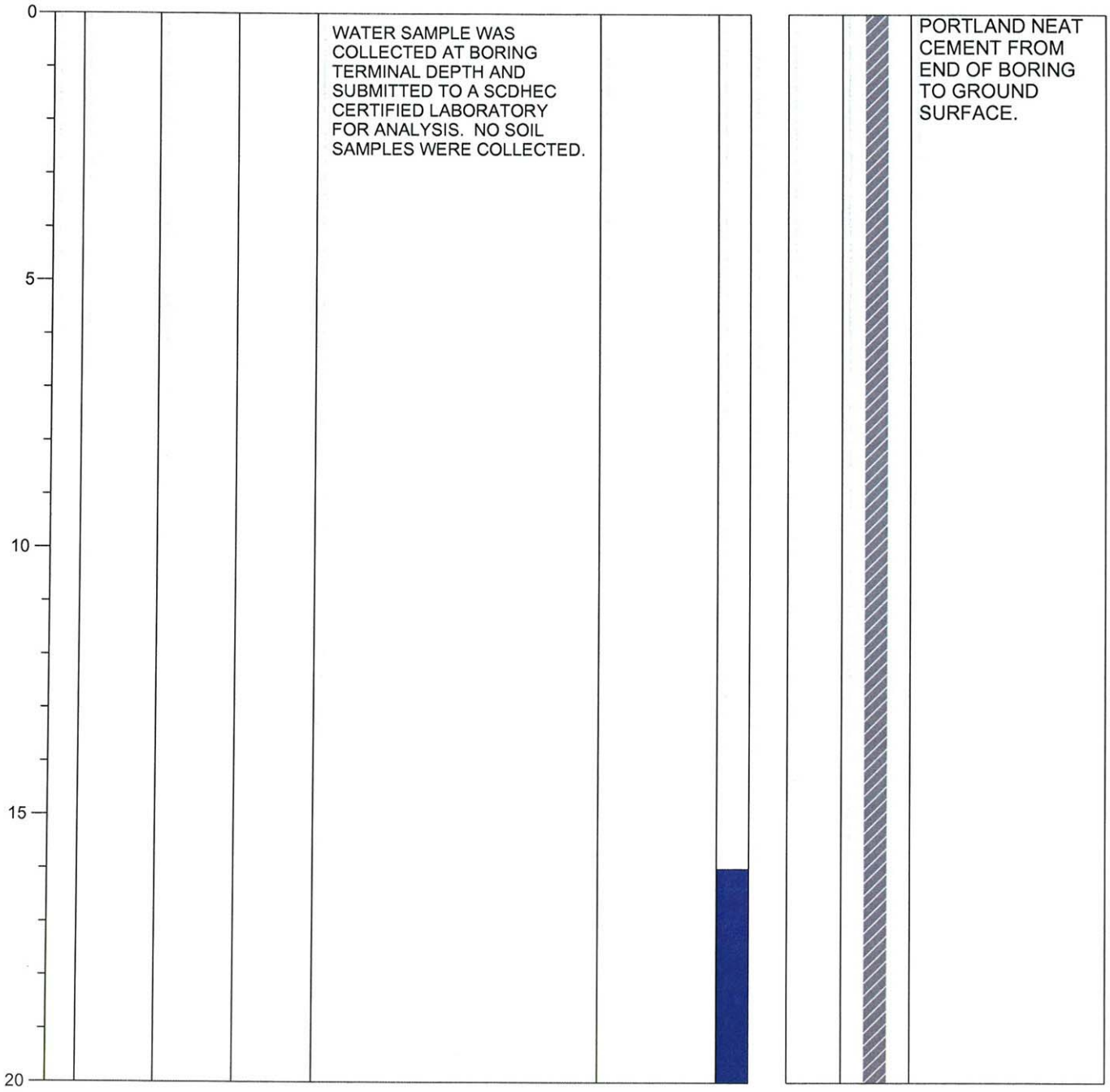
SOIL BORING LOG

SOIL BORING #: 02314-SB6
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKSON

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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



Total Depth = 20 FT BGS

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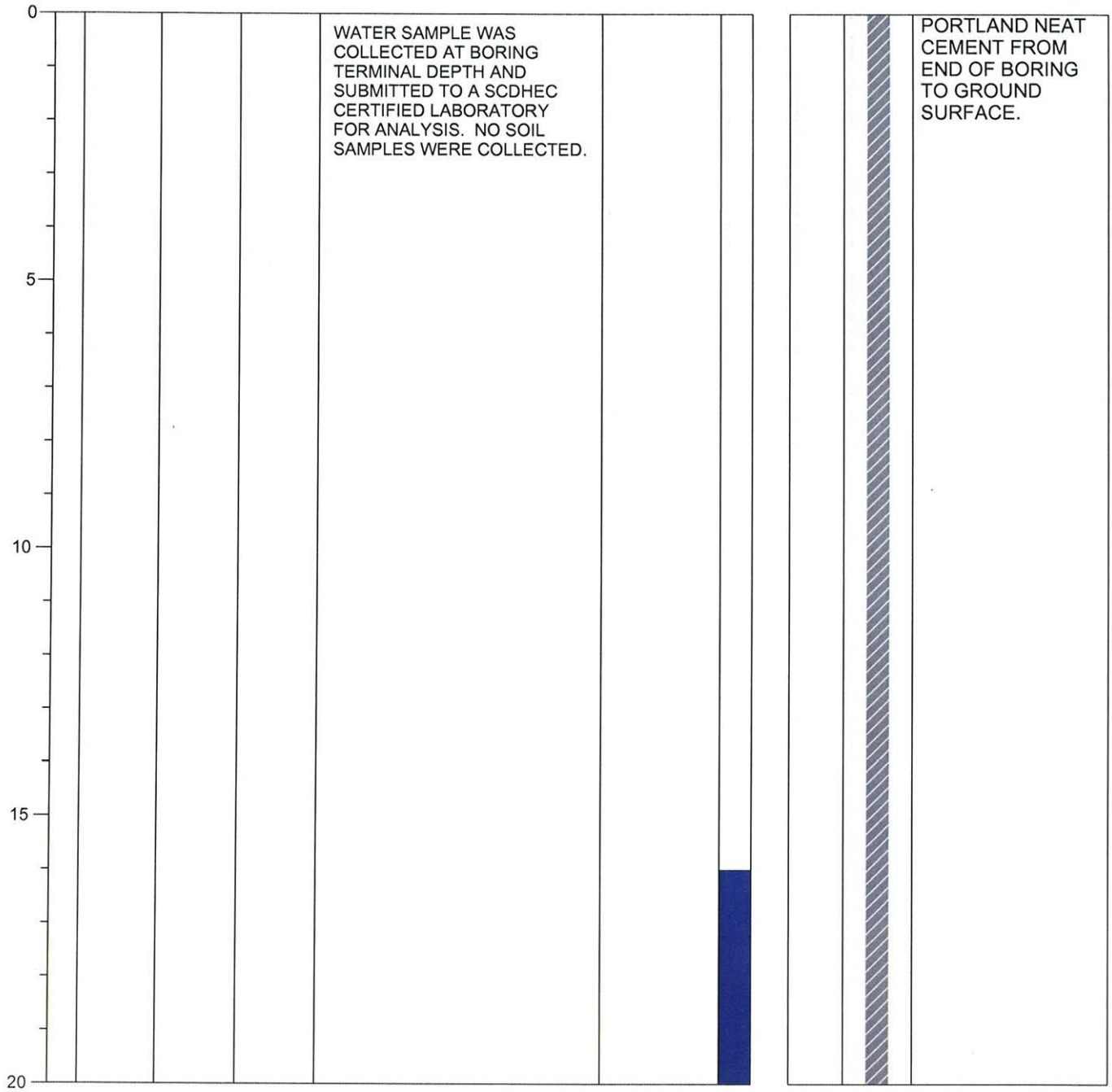
SOIL BORING LOG

SOIL BORING #: 02314-SB7
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKSON

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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



Total Depth = 20 FT BGS

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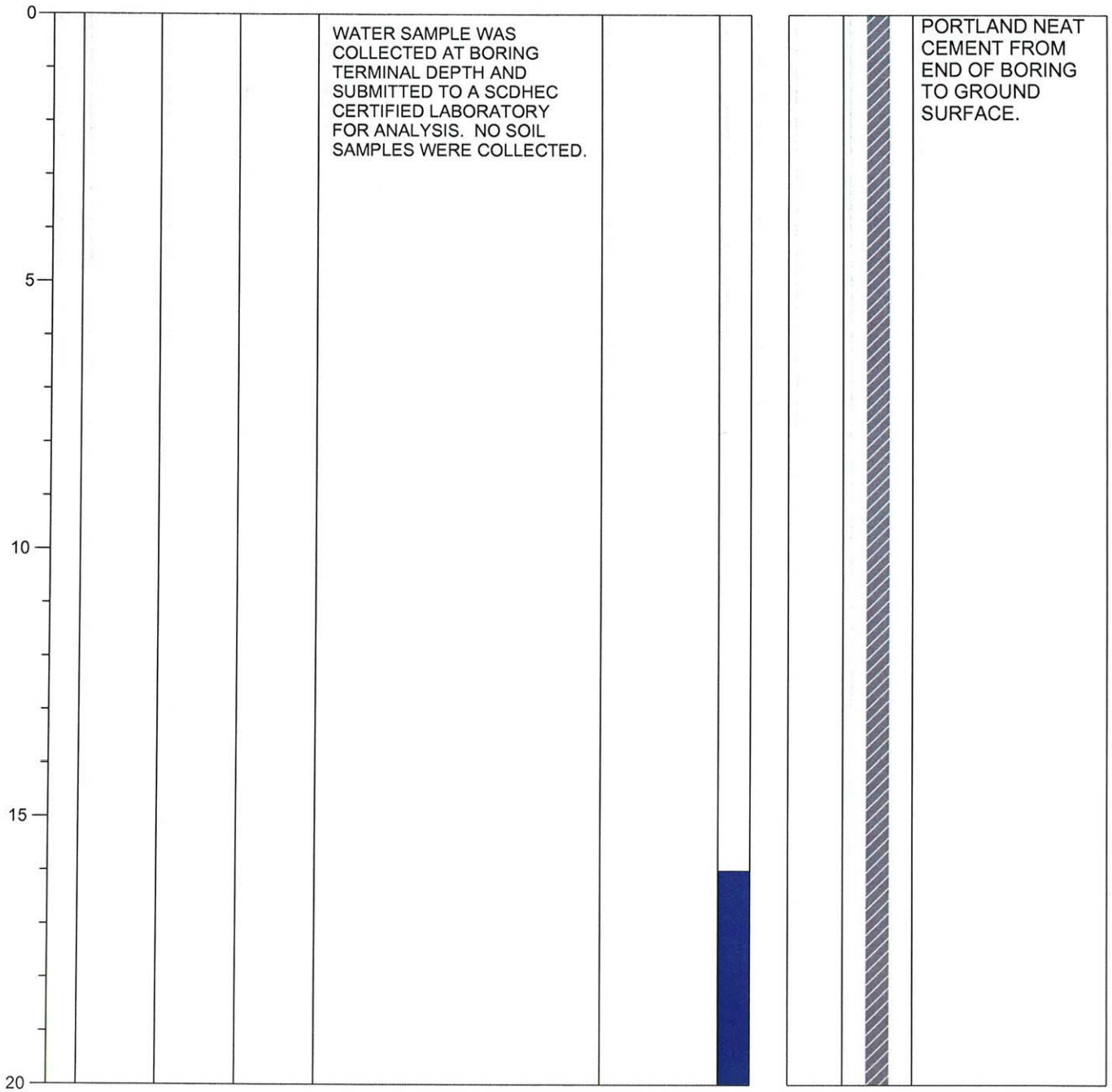
SOIL BORING LOG

SOIL BORING #: 02314-SB8
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKSON

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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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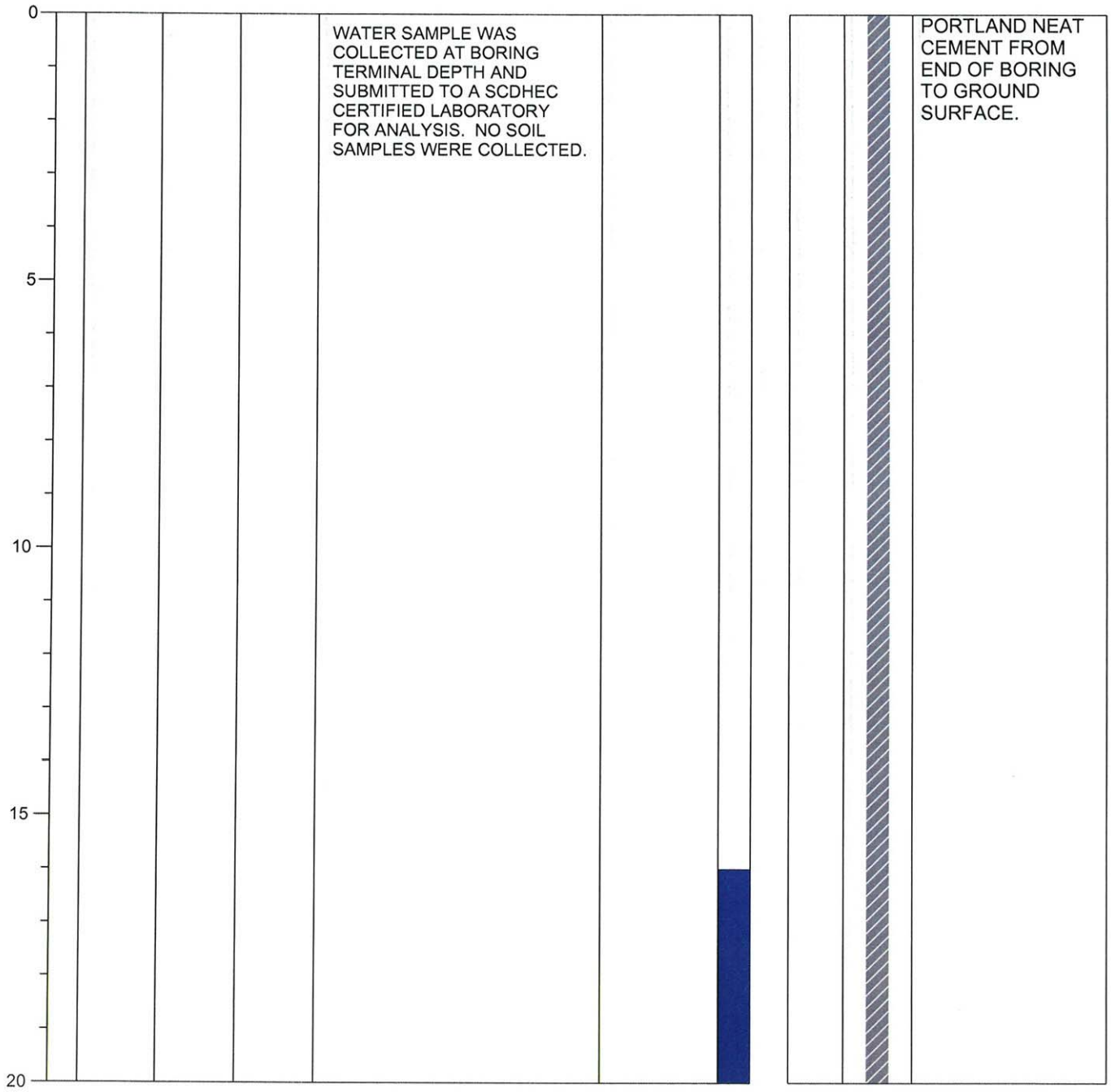
SOIL BORING LOG

SOIL BORING #: 02314-SB9
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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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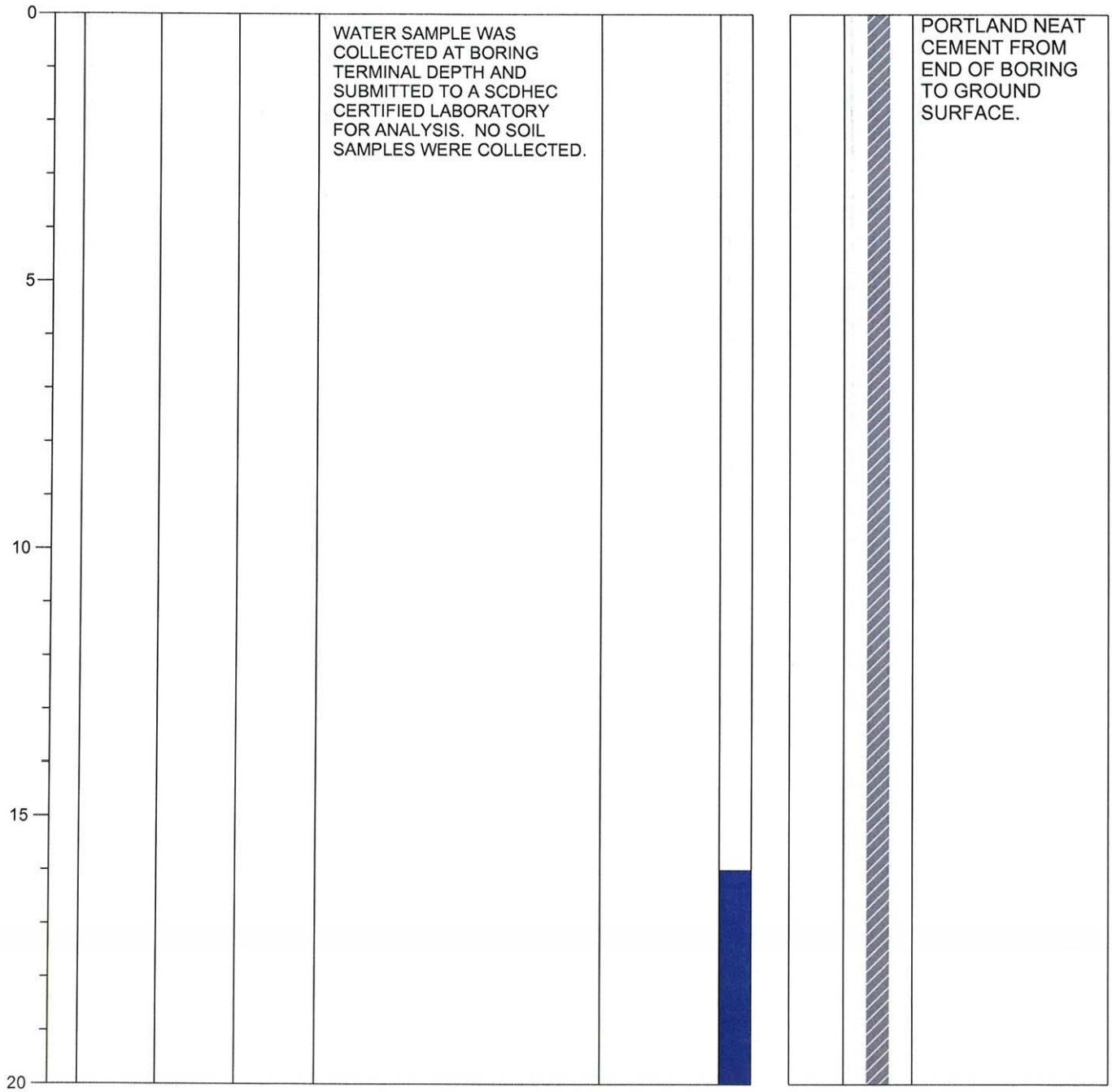
SOIL BORING LOG

SOIL BORING #: 02314-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 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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



Total Depth = 20 FT BGS

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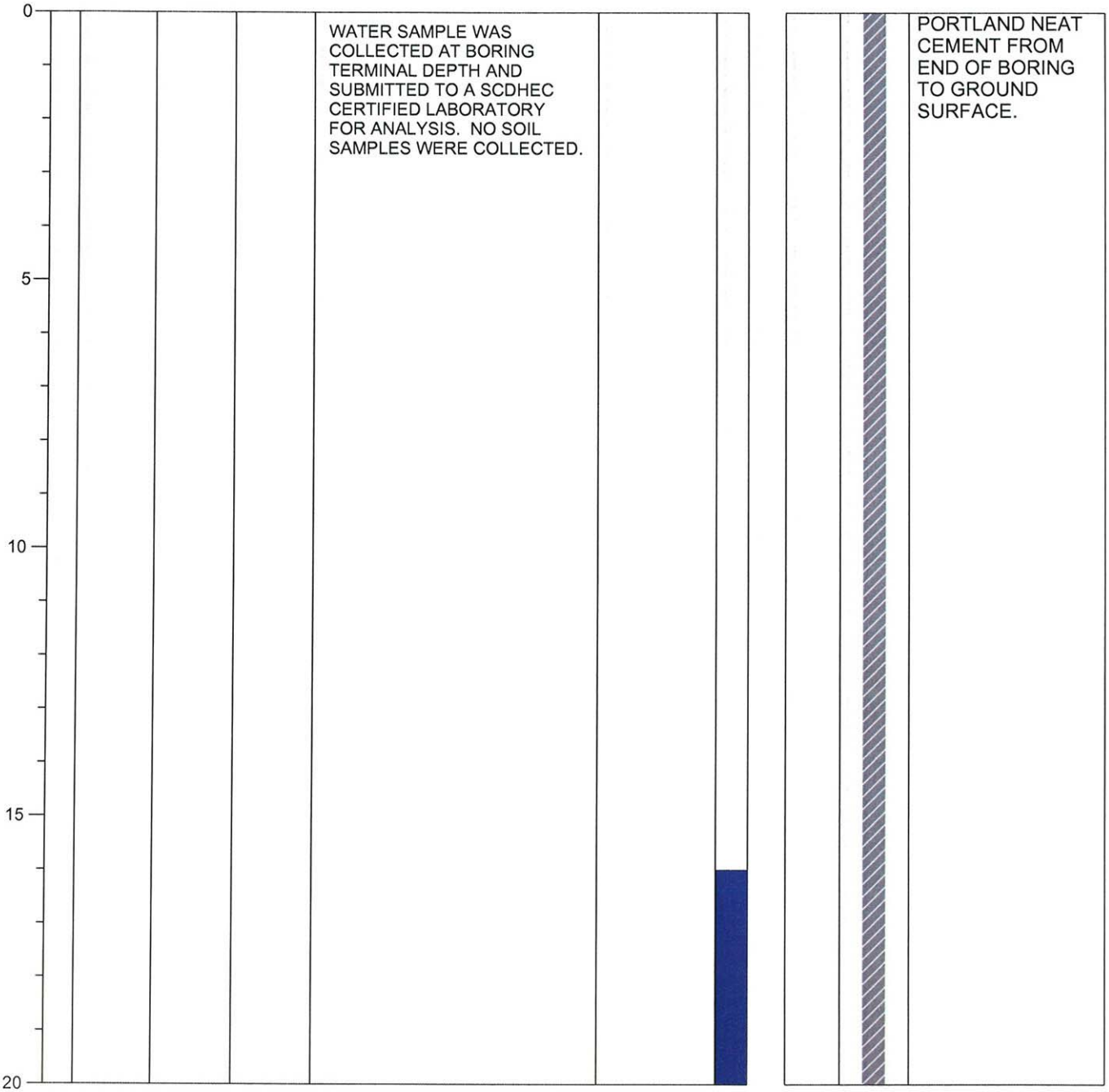
SOIL BORING LOG

SOIL BORING #: 02314-SB11
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKSON

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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



Total Depth = 20 FT BGS

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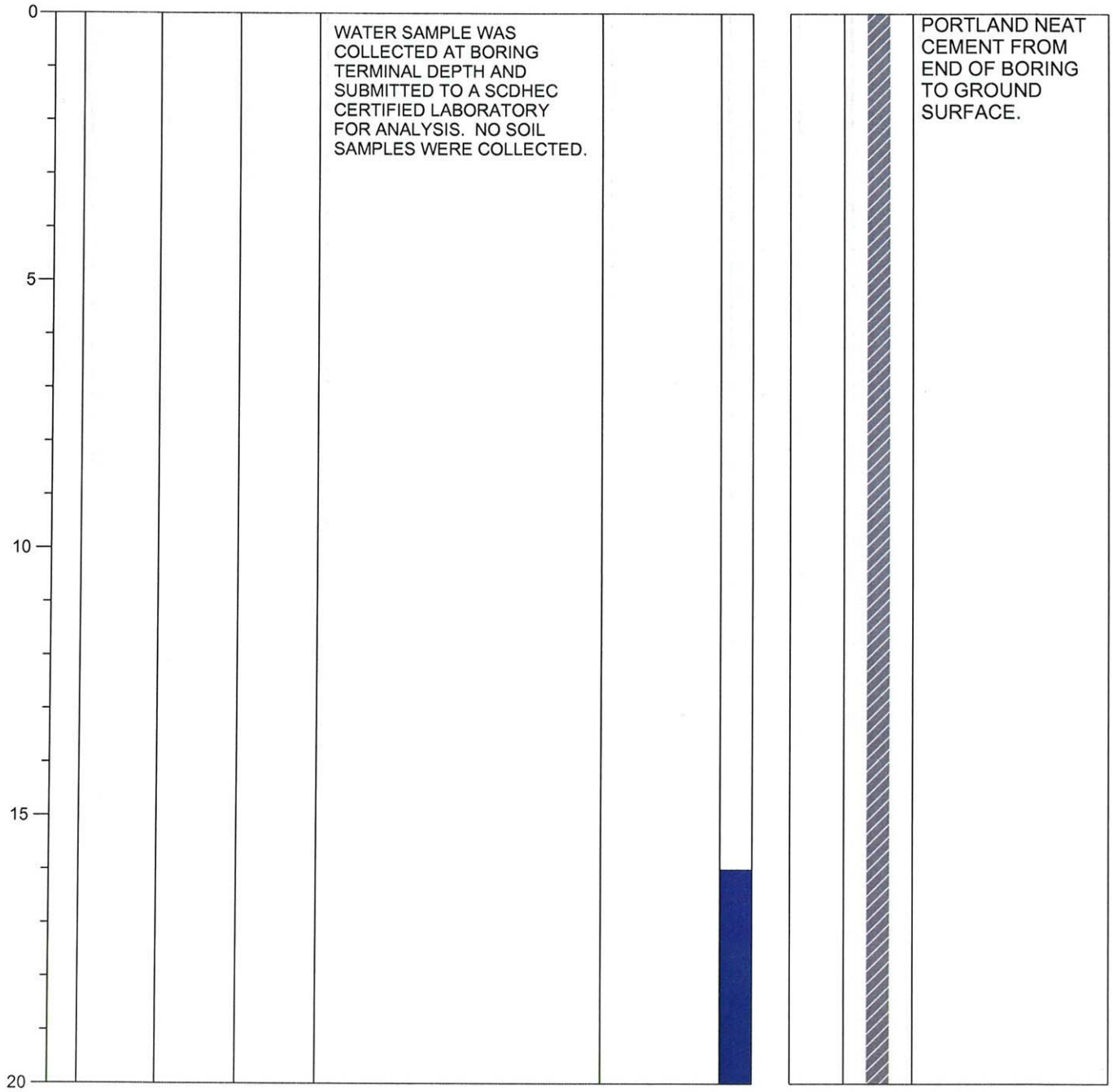
SOIL BORING LOG

SOIL BORING #: 02314-SB12
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



Total Depth = 20 FT BGS

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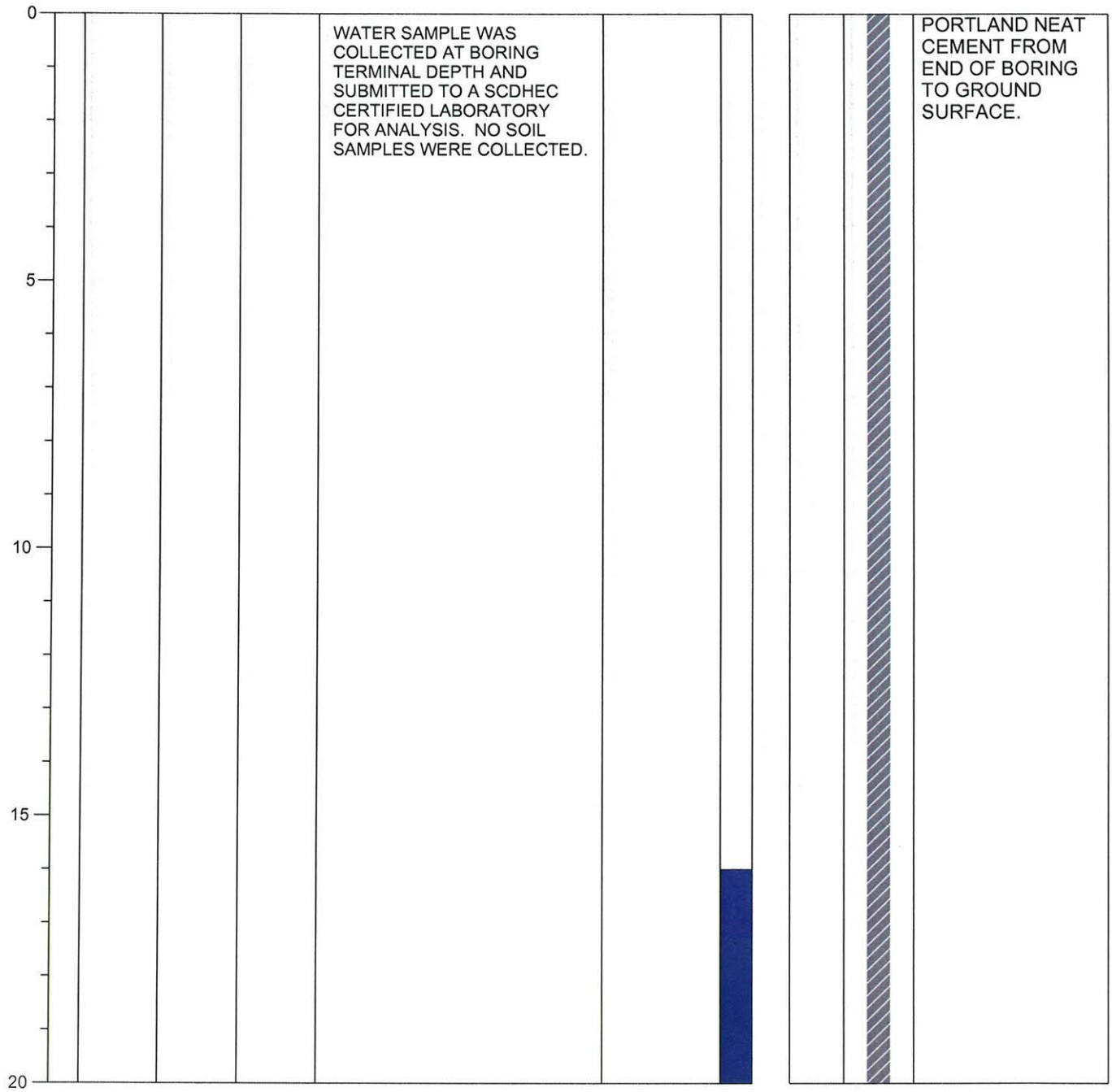
SOIL BORING LOG

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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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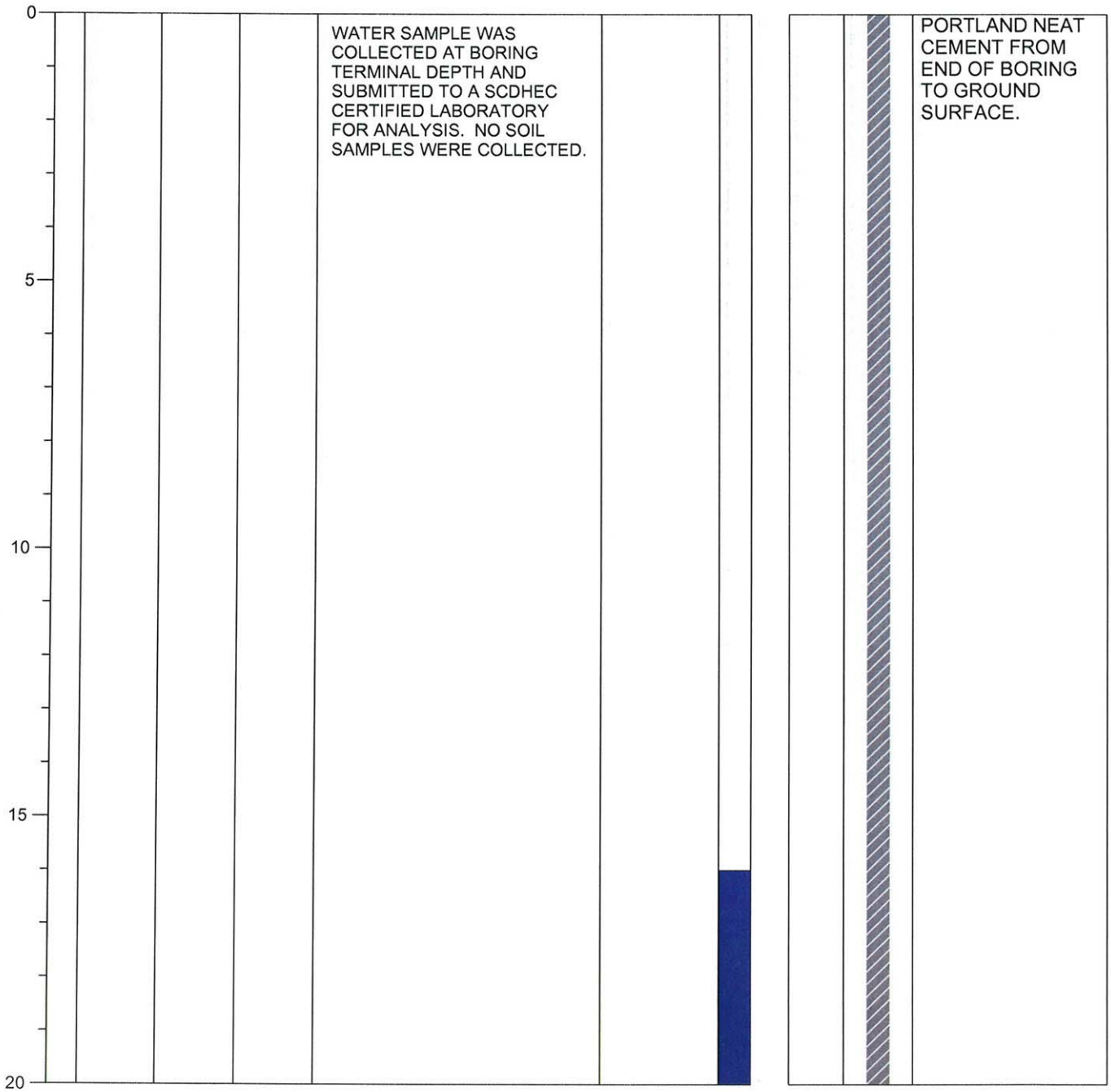
SOIL BORING LOG

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

Depth Scale	Soil Sample	Odor	PID/OVA	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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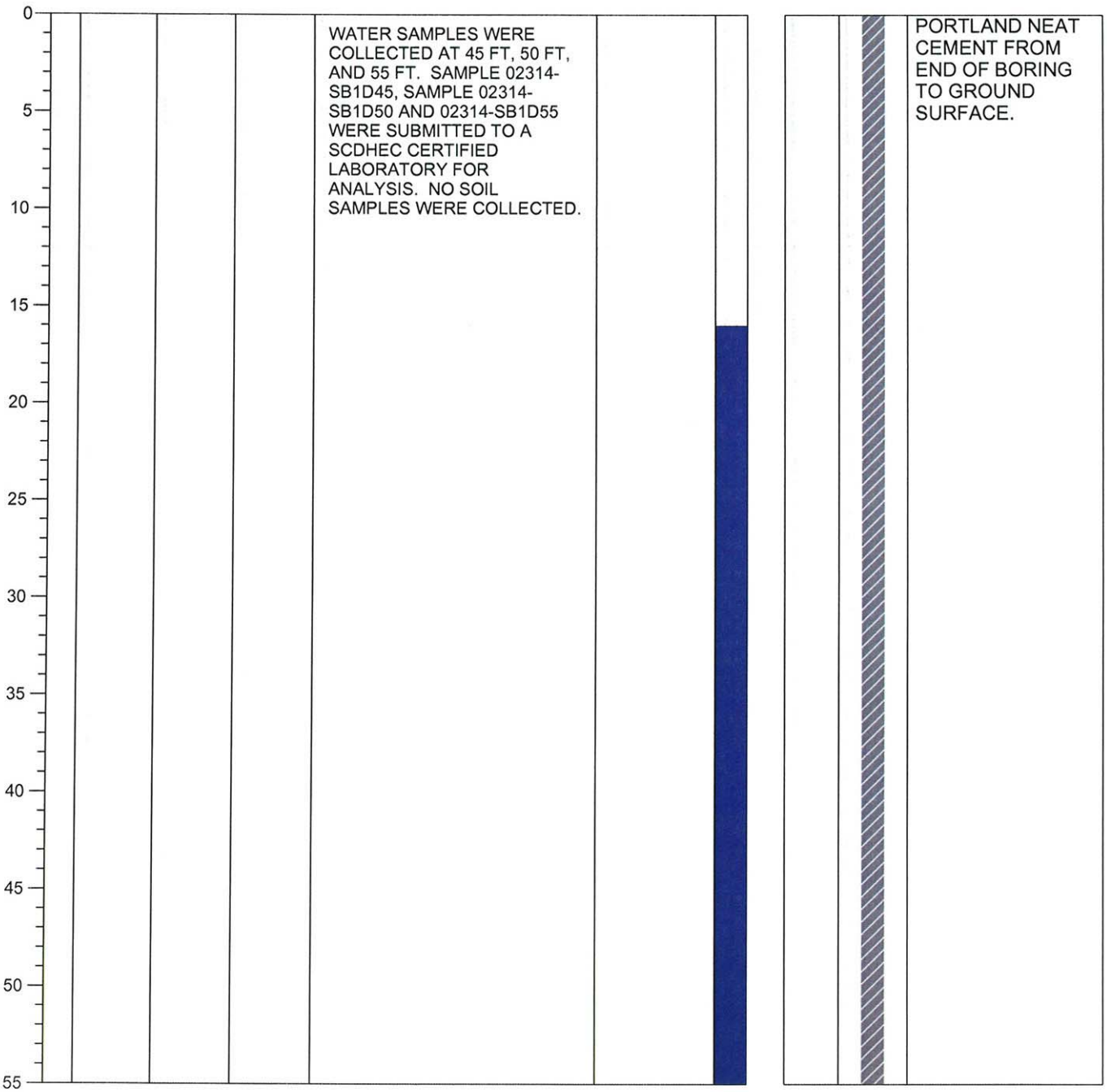
SOIL BORING LOG

SOIL BORING #: 02314-SB1D55
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKON

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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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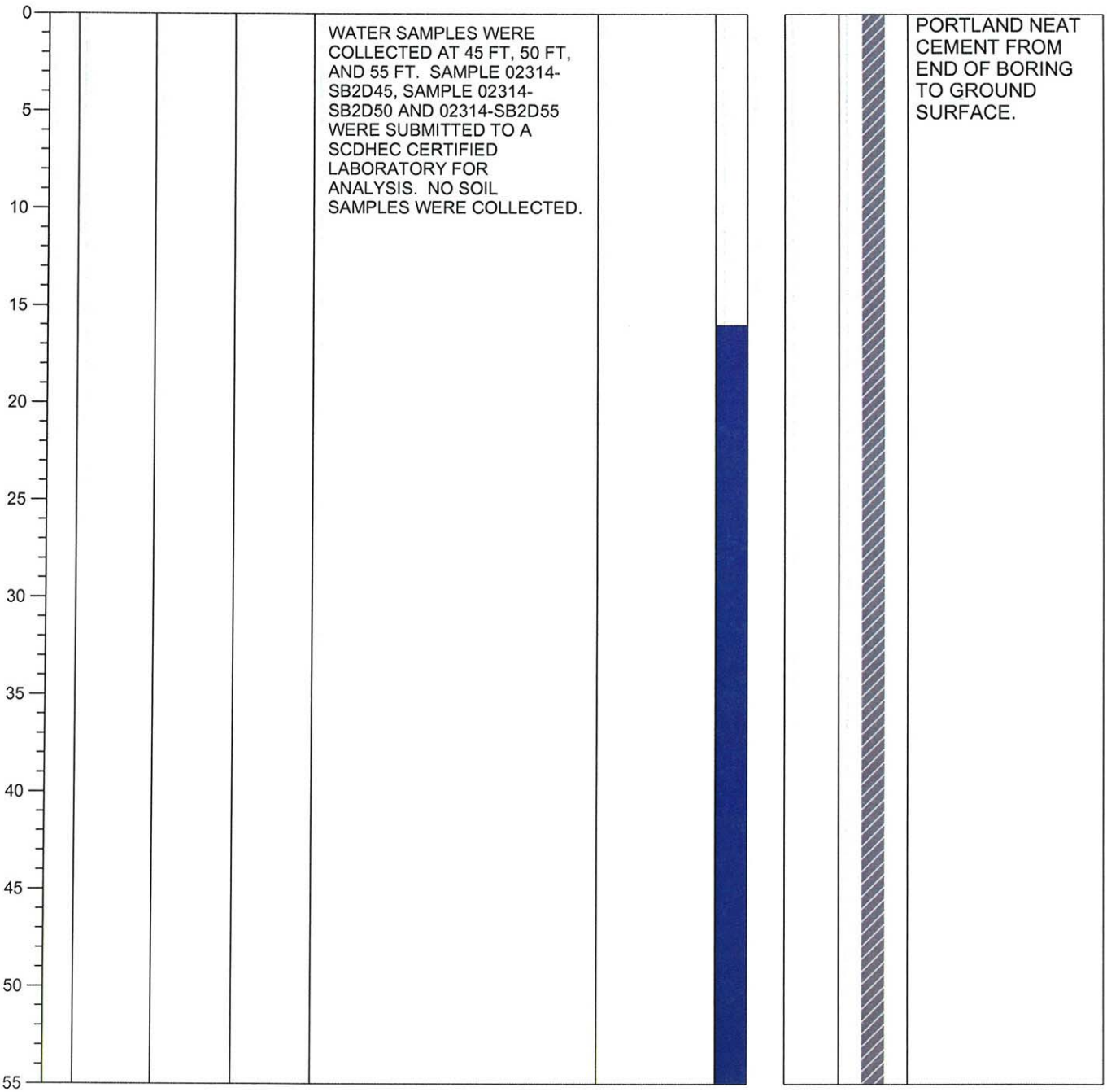
SOIL BORING LOG

SOIL BORING #: 02314-SB2D55
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKON

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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



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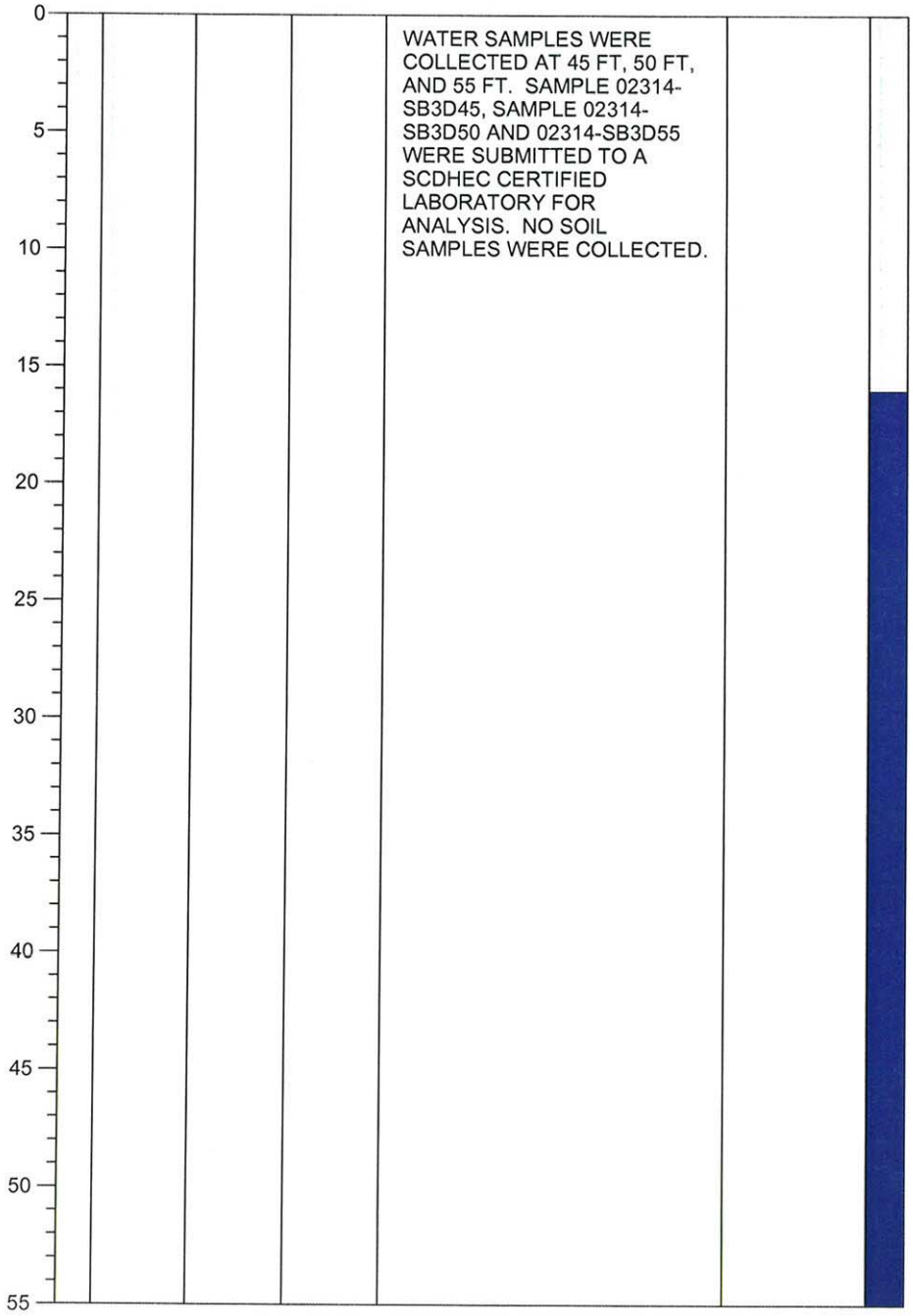
SOIL BORING LOG

SOIL BORING #: 02314-SB3D55
TERRY PROJECT: WINDSOR MART
PROJECT LOCATION: CHERAW, SC
TERRY PROJECT #: 2171.9A
SCDHEC SITE ID #: 02314
CLIENT: MR. CHARLES JACKON

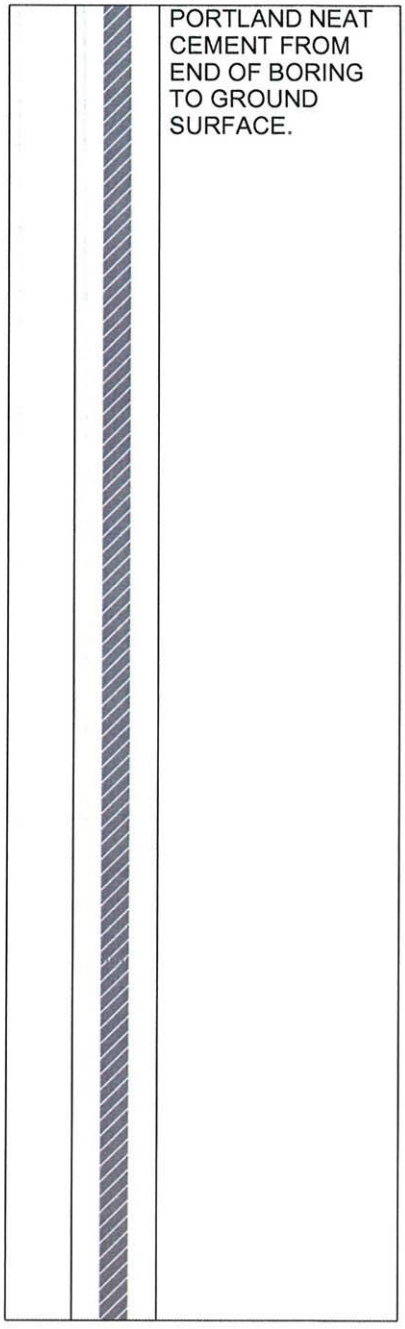
DRILLING COMPANY: TERRY EXPLORATION, LLC.
DRILLER: JOHN S KERR (CERT #2128D)
FIELD PERSONNEL: T. WATERHOUSE
START DATE: 07/16/2014 FINISH DATE: 07/16/2014

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	Moisture Content	Lithology	Water Level	BORING ABANDONMENT
					SAND: color, moisture, gradation, grain size, fines content, additional comments. CLAY: density, color, moisture, % fines, % coarse, plasticity, additional comments.		



WATER SAMPLES WERE COLLECTED AT 45 FT, 50 FT, AND 55 FT. SAMPLE 02314-SB3D45, SAMPLE 02314-SB3D50 AND 02314-SB3D55 WERE SUBMITTED TO A SCDHEC CERTIFIED LABORATORY FOR ANALYSIS. NO SOIL SAMPLES WERE COLLECTED.



PORTLAND NEAT CEMENT FROM END OF BORING TO GROUND SURFACE.

Total Depth = 55 FT BGS

APPENDIX E

Well Completion Logs/SCDHEC 1903 Forms

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WELL LOG

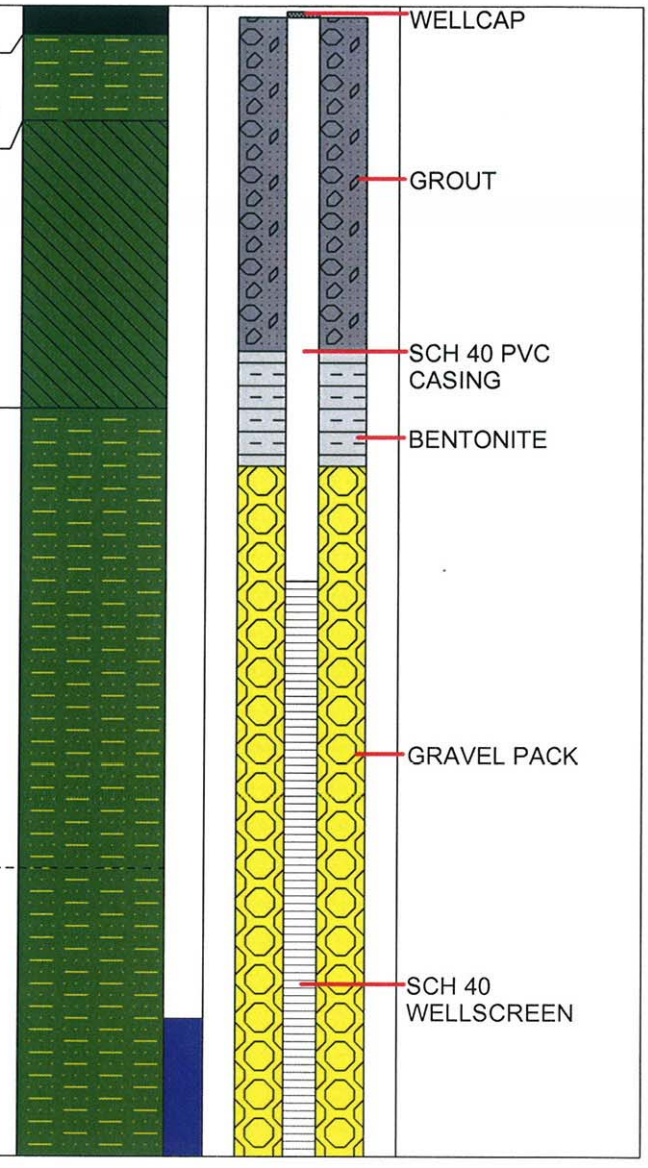
MONITORING WELL #: 02314-MW-2R
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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: 173.92
WATER LEVEL: 17.60 FT TOC
EASTING: -412.2891
NORTHING: 192.4186
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

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
0		1	N/A	1	ASPHALT: Asphalt	
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity	
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity	
		1	66.9	1		
5		1	N/A	1		
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity	
		1	21.5	2		
10		1	N/A	2		
		1	237	2		
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity	
20						



Well Construction

Total Depth = 20.0 FT TOC

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WELL LOG

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 Filter Interval 8.0-20.0 FT BGS
Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	0.1	2			
10		1	N/A	2			
							GRAVEL PACK
		1	0.1	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		
							SCH 40 WELLSCREEN
20							

Total Depth = 20.0 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-6
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: 174.57
WATER LEVEL: 18.17 FT TOC
EASTING: -368.7639
NORTHING: 170.5906
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown coarse grained soft sandy clay, low density, high plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	0.0	2			
10		1	N/A	2			
							GRAVEL PACK
		1	0.1	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		
							SCH 40 WELLSCREEN
20							

Total Depth = 20.0 FT TOC

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WELL LOG

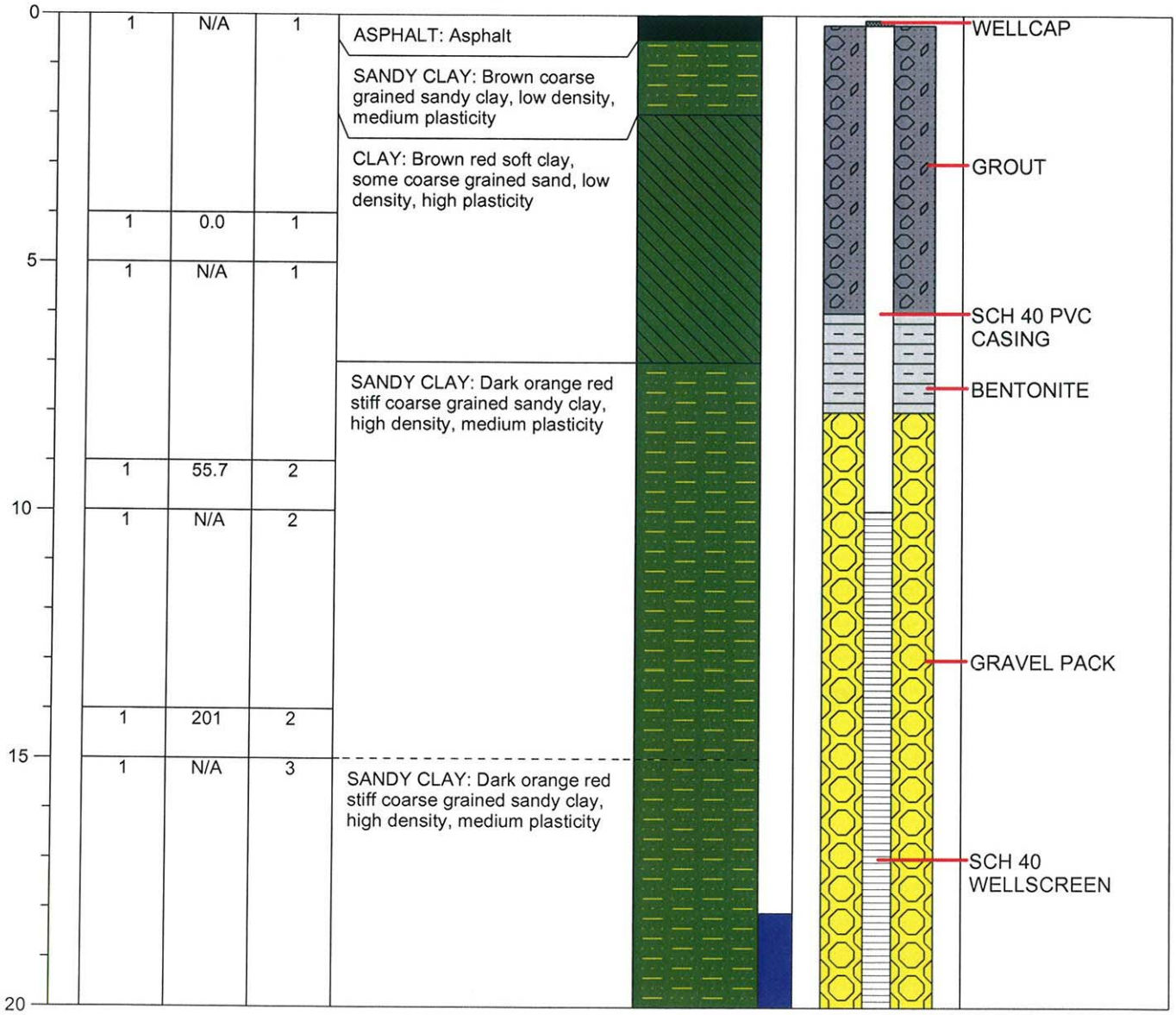
MONITORING WELL #: 02314-MW-7
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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: 174.2
WATER LEVEL: 18.09 FT TOC
EASTING: -435.5512
NORTHING: 180.7126
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
5		1	0.0	1			
		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	55.7	2			
10		1	N/A	2			GRAVEL PACK
		1	201	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		SCH 40 WELLSCREEN
20							



Total Depth = 20.0 FT TOC

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WELL LOG

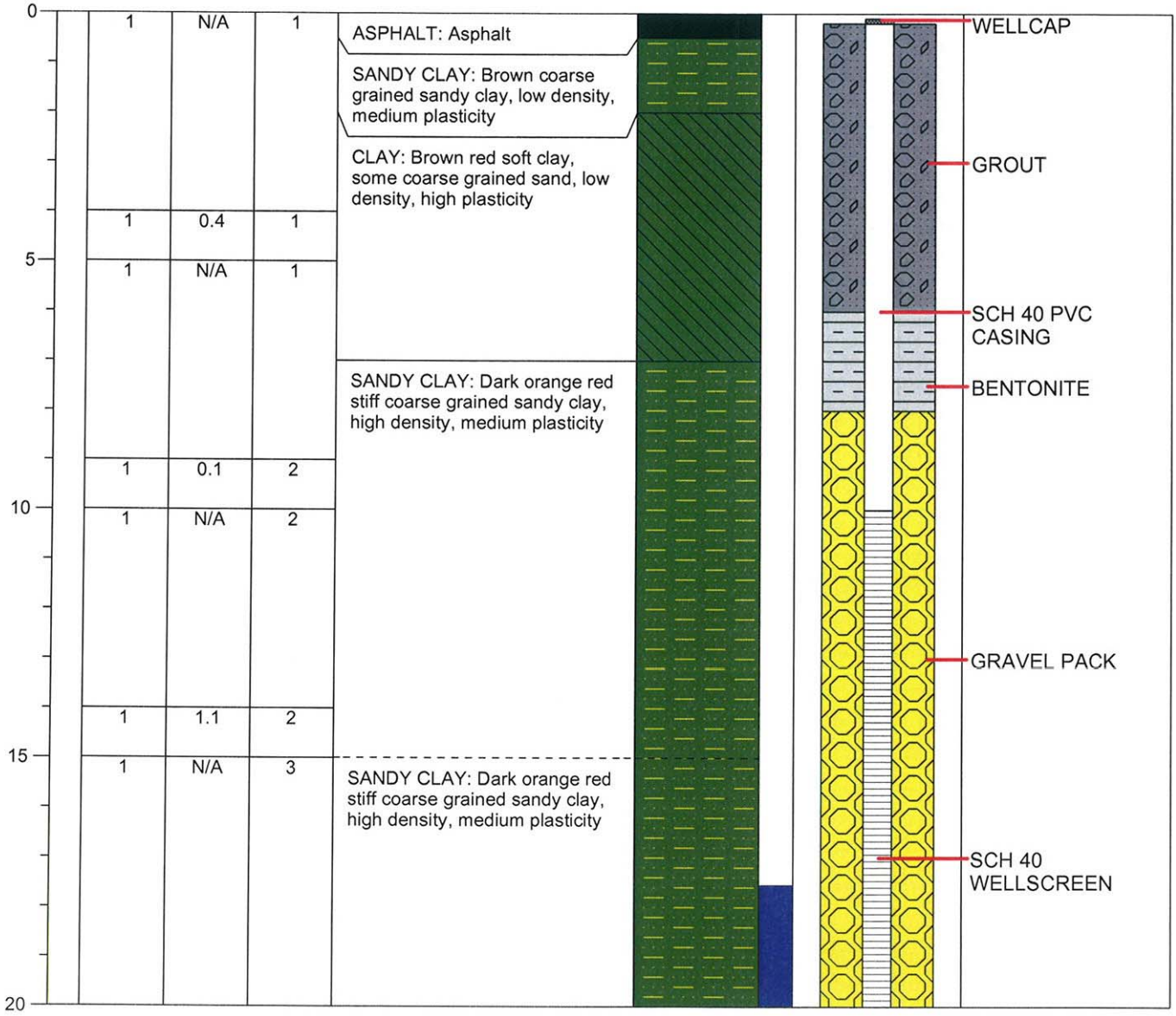
MONITORING WELL #: 02314-MW-8
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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 Filter Interval 8-20.0 FT BGS
Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS Filter 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
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.4	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	0.1	2			
10		1	N/A	2			GRAVEL PACK
		1	1.1	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		SCH 40 WELLSCREEN
20							



Total Depth = 20.0 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-9
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: 172.72
WATER LEVEL: 16.84 FT TOC
EASTING: -274.9486
NORTHING: 211.2126
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	0.0	2			
10		1	N/A	2			
							GRAVEL PACK
		1	0.0	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		SCH 40 WELLSCREEN
20							

Total Depth = 20.0 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-10
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: 172.09
WATER LEVEL: 15.85 FT TOC
EASTING: -319.242
NORTHING: 250.5636
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	0.0	2			
10		1	N/A	2			
							GRAVEL PACK
		1	0.0	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		
							SCH 40 WELLSCREEN
20							

Total Depth = 20.0 FT TOC

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WELL LOG

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)
DRILLING METHOD: HOLLOW STEM AUGER

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
NORTHING: 281.8814
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	TOPSOIL: Topsoil		WELLCAP
					SANDY CLAY: Brown coarse grained soft sandy clay, low density, high plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
							BENTONITE
					CLAY: Dark orange red stiff clay, some coarse grained sand high density, medium plasticity		
		1	0.0	2			
10		1	N/A	2			
							GRAVEL PACK
		1	0.6	2			
15		1	N/A	3	CLAY: Dark orange red stiff clay, some coarse grained sand high density, medium plasticity		
							SCH 40 WELLSCREEN
20							

Total Depth = 20.0 FT TOC

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WELL LOG

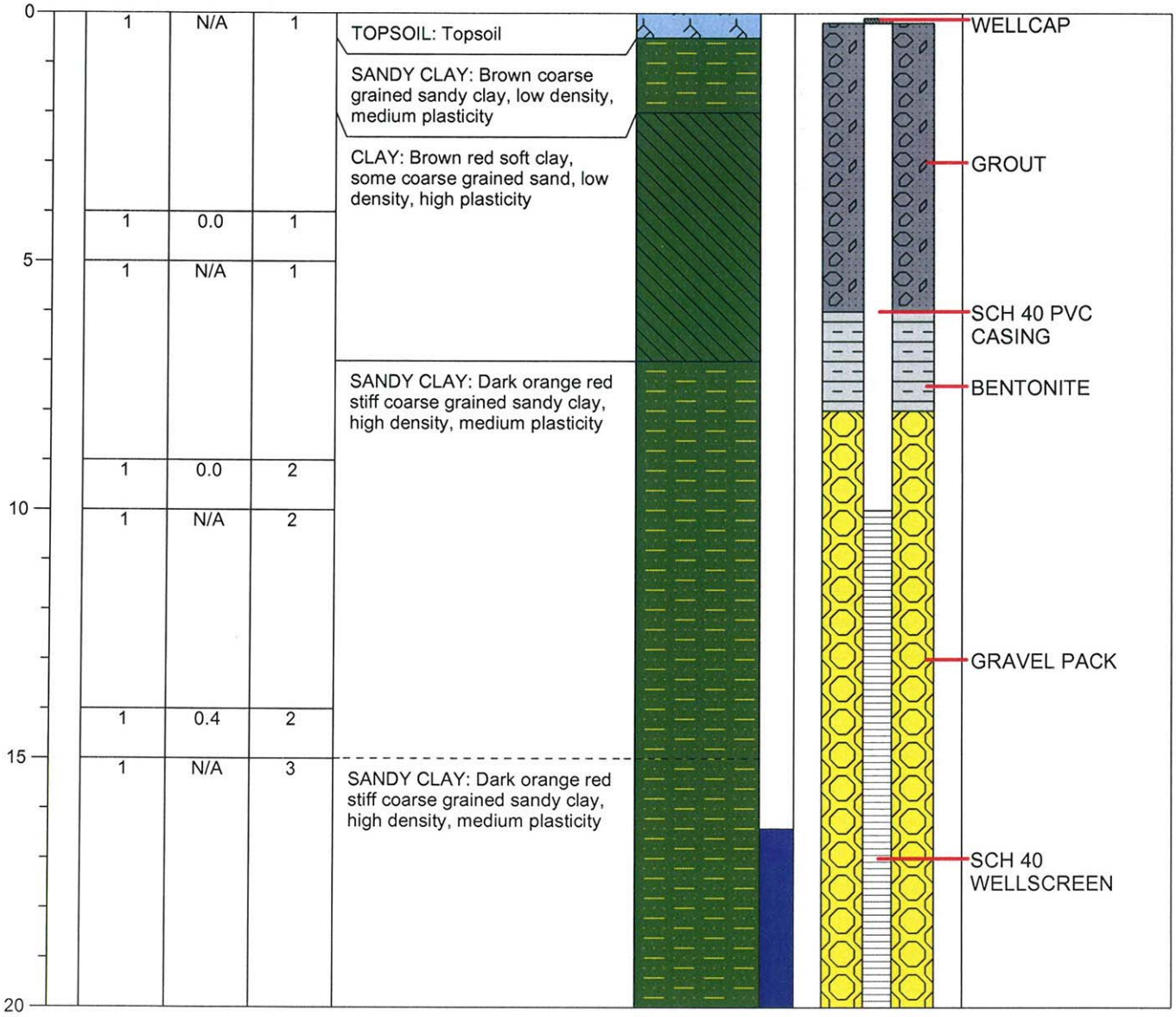
MONITORING WELL #: 02314-MW-12
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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 Filter Interval 8-20.0 FT BGS
Screen Interval 10.0-20.0 FT TOC Grout Interval 0-6 FT BGS Filter 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
0		1	N/A	1	TOPSOIL: Topsoil		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		GROUT
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	0.0	2			
10		1	N/A	2			GRAVEL PACK
		1	0.4	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		SCH 40 WELLSCREEN
20							



Total Depth = 20.0 FT TOC

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WELL LOG

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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
							BENTONITE
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		
		1	0.0	2			
10		1	N/A	2			GRAVEL PACK
		1	2.1	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		SCH 40 WELLSCREEN
20							

Total Depth = 20.0 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-14
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: 172.88
WATER LEVEL: 16.75 FT TOC
EASTING: -539.0488
NORTHING: 211.1026
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	TOPSOIL: Topsoil		WELLCAP
					SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity		
					CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		BENTONITE
		1	0.0	2			
10		1	N/A	2			
							GRAVEL PACK
		1	0.8	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		SCH 40 WELLSCREEN
20							

Total Depth = 20.0 FT TOC

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WELL LOG

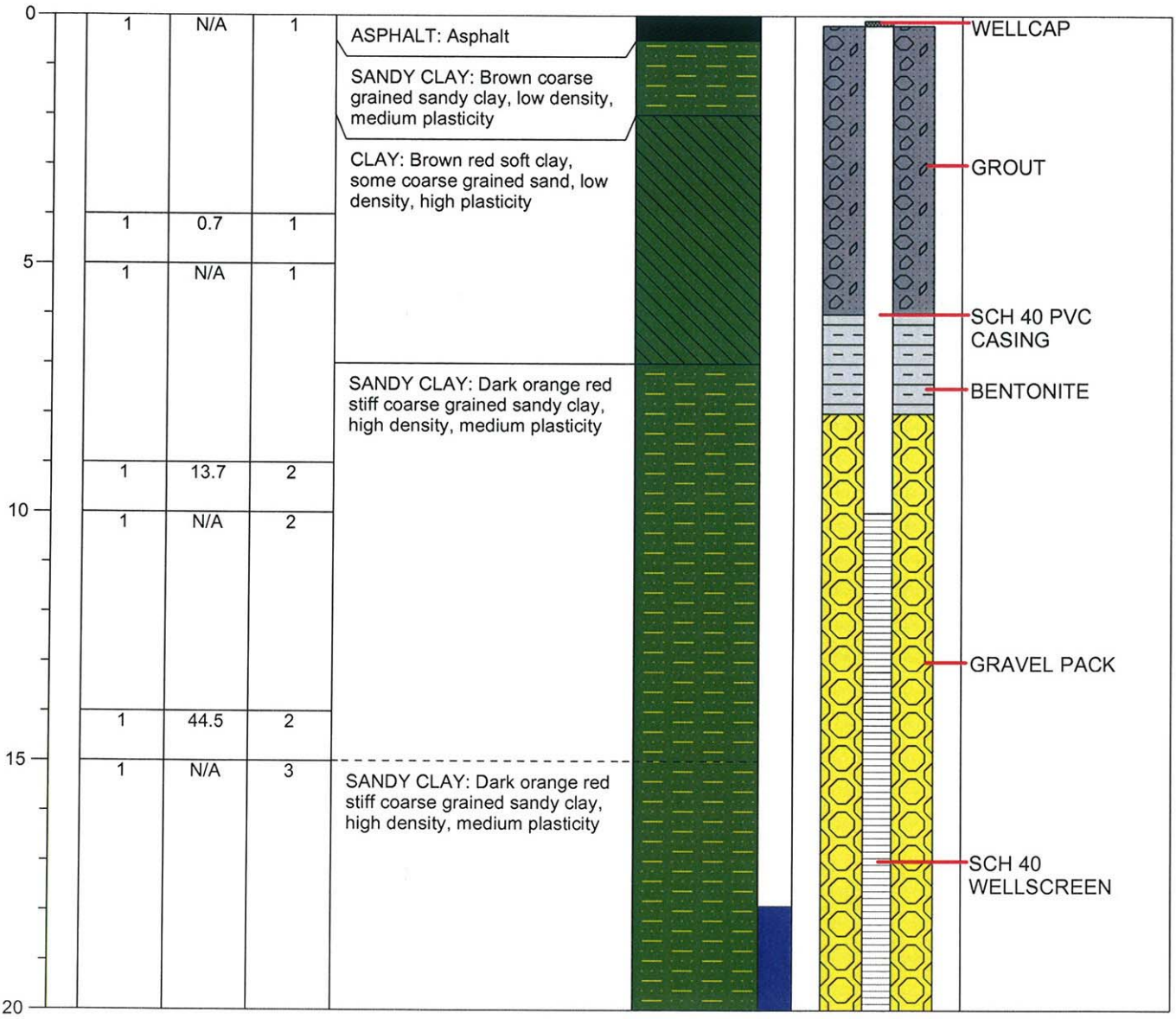
MONITORING WELL #: 02314-MW-15
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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: 173.85
WATER LEVEL: 17.90 FT TOC
EASTING: -392.4502
NORTHING: 191.6055
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt SANDY CLAY: Brown coarse grained sandy clay, low density, medium plasticity CLAY: Brown red soft clay, some coarse grained sand, low density, high plasticity		WELLCAP, GROUT
		1	0.7	1			
5		1	N/A	1			SCH 40 PVC CASING, BENTONITE
		1	13.7	2	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		
10		1	N/A	2			GRAVEL PACK
		1	44.5	2			
15		1	N/A	3	SANDY CLAY: Dark orange red stiff coarse grained sandy clay, high density, medium plasticity		SCH 40 WELLSCREEN
20							



Total Depth = 20.0 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-16
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: 11/8/2014 FINISH DATE: 11/8/2014
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: 176.97
WATER LEVEL: 21.50 FT TOC
EASTING: -312.71
NORTHING: 62.4051
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-16.0 FT TOC Bentonite Interval 14-15 FT BGS Filter Interval 15-26.0 FT BGS
Screen Interval 16.0-26.0 FT TOC Grout Interval 0-14 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	TOPSOIL: Topsoil		WELLCAP
					SANDY CLAY: Grey black coarse grained soft sandy clay, medium density, medium plasticity		GROUT
5		1	0.4	1			
		1	N/A	1			SCH 40 PVC CASING
					CLAYEY SAND: Red orange coarse grained soft clayey sand, low density, low plasticity		
		1	0.0	1			
10		1	N/A	2			
		1	1.6	2			BENTONITE
15		1	N/A	3	SILTY CLAY: Red orange medium soft silty clay, medium density, medium plasticity		GRAVEL PACK
20							
							SCH 40 WELLSCREEN
25							

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WELL LOG

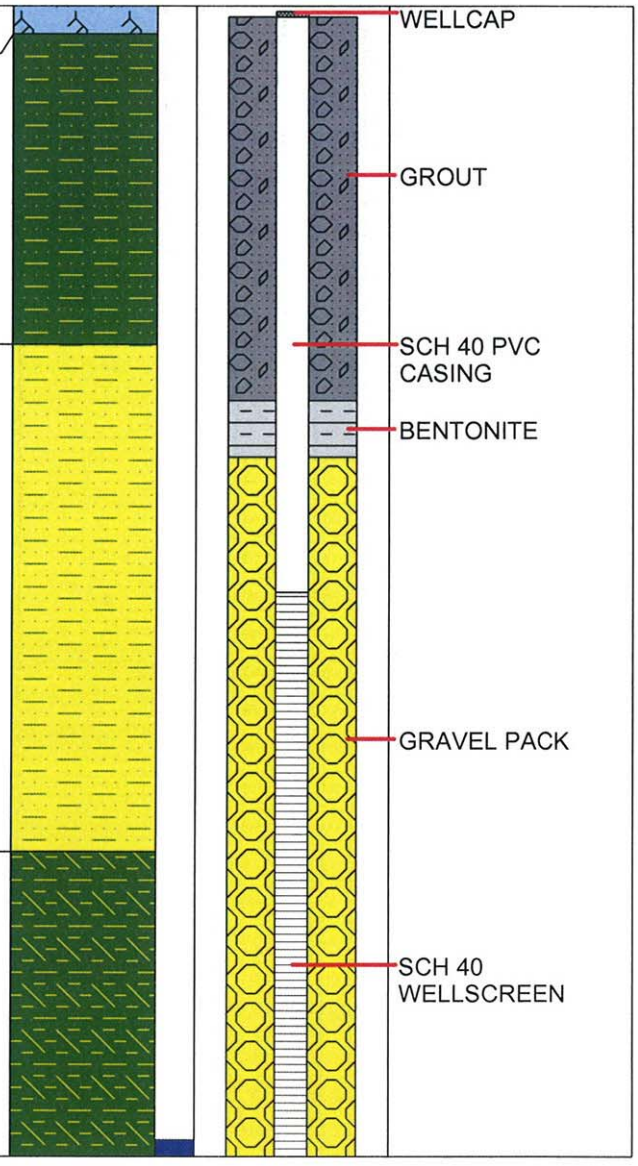
MONITORING WELL #: 02314-MW-17
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: A. KNIGHT
START DATE: 11/4/2014 FINISH DATE: 11/5/2014
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: 176.13
WATER LEVEL: 20.10 FT TOC
EASTING: -380.6549
NORTHING: 57.9465
DEVELOPMENT: PUMP/SURGE

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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	TOPSOIL: Topsoil SANDY CLAY: Light orange coarse grained, medium soft sandy clay, medium density, medium plasticity		WELLCAP GROUT
		1	2.7	1			
5		1	N/A	1			SCH 40 PVC CASING BENTONITE
		1	2.5	1	CLAYEY SAND: Dark red orange coarse grained, medium soft clayey sand, low density, medium plasticity		
10		1	N/A	2			GRAVEL PACK
		1	0.8	2			
15		1	N/A	3	SILTY CLAY: Red orange medium soft silty clay, low density, medium plasticity		SCH 40 WELLSCREEN
20							



Total Depth = 20.4 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-18
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: 11/5/2014 FINISH DATE: 11/5/2014
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: 175.59
WATER LEVEL: 19.74 FT TOC
EASTING: -471.9887
NORTHING: 71.2045
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-14.6 FT TOC Bentonite Interval 11-12 FT BGS Filter Interval 12-24.6 FT BGS
Screen Interval 14.6-24.6 FT TOC Grout Interval 0-11 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	TOPSOIL: Topsoil SANDY CLAY: Orange red coarse grained, soft sandy clay, medium density, medium plasticity		WELLCAP
		1	0.8	1			GROUT
5		1	N/A	1			
					CLAYEY SAND: Red orange coarse grained, stiff clayey sand, low density, medium plasticity		SCH 40 PVC CASING
		1	14.9	1			
10		1	N/A	2			BENTONITE
		1	0.4	2			GRAVEL PACK
15		1	N/A	3	SILTY CLAY: Red orange medium soft silty clay, low density, medium plasticity		
		1	0.0	3			SCH 40 WELLSCREEN
20		1	N/A	3	SILTY CLAY: Red orange medium soft silty clay, low density, fluid plasticity		

Total Depth = 24.6 FT TOC

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WELL LOG

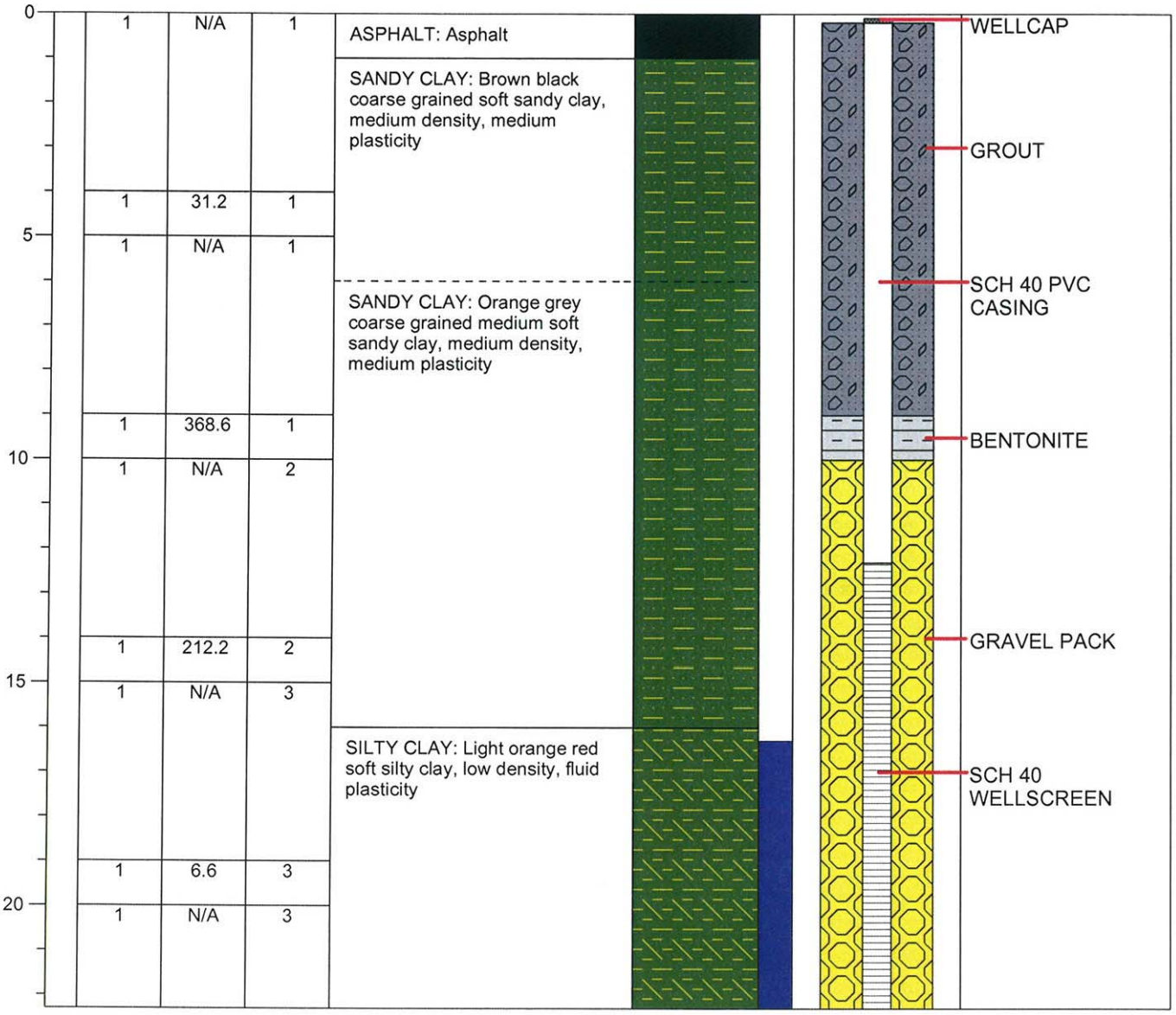
MONITORING WELL #: 02314-MW-19
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: A. KNIGHT
START DATE: 11/6/2014 FINISH DATE: 11/6/2014
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: 171.5
WATER LEVEL: 16.32 FT TOC
EASTING: -548.8993
NORTHING: 297.1279
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-12.3 FT TOC Bentonite Interval 9-10 FT BGS Filter Interval 10-22.3 FT BGS
Screen Interval 12.3-22.3 FT TOC Grout Interval 0-9 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown black coarse grained soft sandy clay, medium density, medium plasticity		GROUT
		1	31.2	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Orange grey coarse grained medium soft sandy clay, medium density, medium plasticity		
		1	368.6	1			BENTONITE
10		1	N/A	2			
		1	212.2	2			GRAVEL PACK
15		1	N/A	3			
					SILTY CLAY: Light orange red soft silty clay, low density, fluid plasticity		SCH 40 WELLSCREEN
		1	6.6	3			
20		1	N/A	3			



Total Depth = 22.3 FT TOC

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WELL LOG

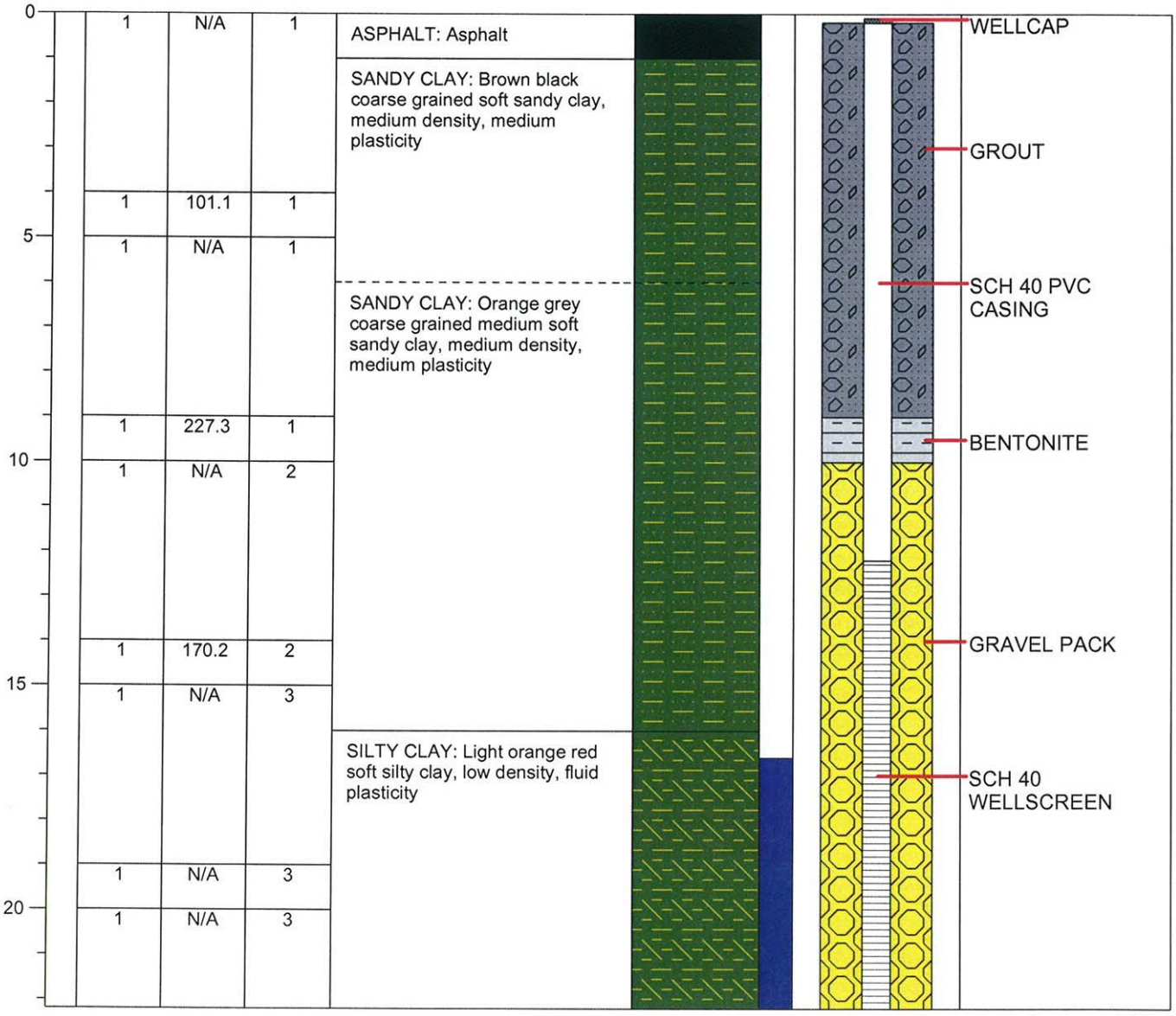
MONITORING WELL #: 02314-MW-20
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: A. KNIGHT
START DATE: 11/6/2014 FINISH DATE: 11/6/2014
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: 171.82
WATER LEVEL: 16.63 FT TOC
EASTING: -514.7836
NORTHING: 295.7874
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-12.2 FT TOC Bentonite Interval 9-10 FT BGS Filter Interval 10-22.2 FT BGS
Screen Interval 12.2-22.2 FT TOC Grout Interval 0-9 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					SANDY CLAY: Brown black coarse grained soft sandy clay, medium density, medium plasticity		GROUT
		1	101.1	1			
5		1	N/A	1			SCH 40 PVC CASING
					SANDY CLAY: Orange grey coarse grained medium soft sandy clay, medium density, medium plasticity		
		1	227.3	1			BENTONITE
10		1	N/A	2			
		1	170.2	2			GRAVEL PACK
15		1	N/A	3			
					SILTY CLAY: Light orange red soft silty clay, low density, fluid plasticity		SCH 40 WELLSCREEN
		1	N/A	3			
20		1	N/A	3			



Total Depth = 22.2 FT TOC

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WELL LOG

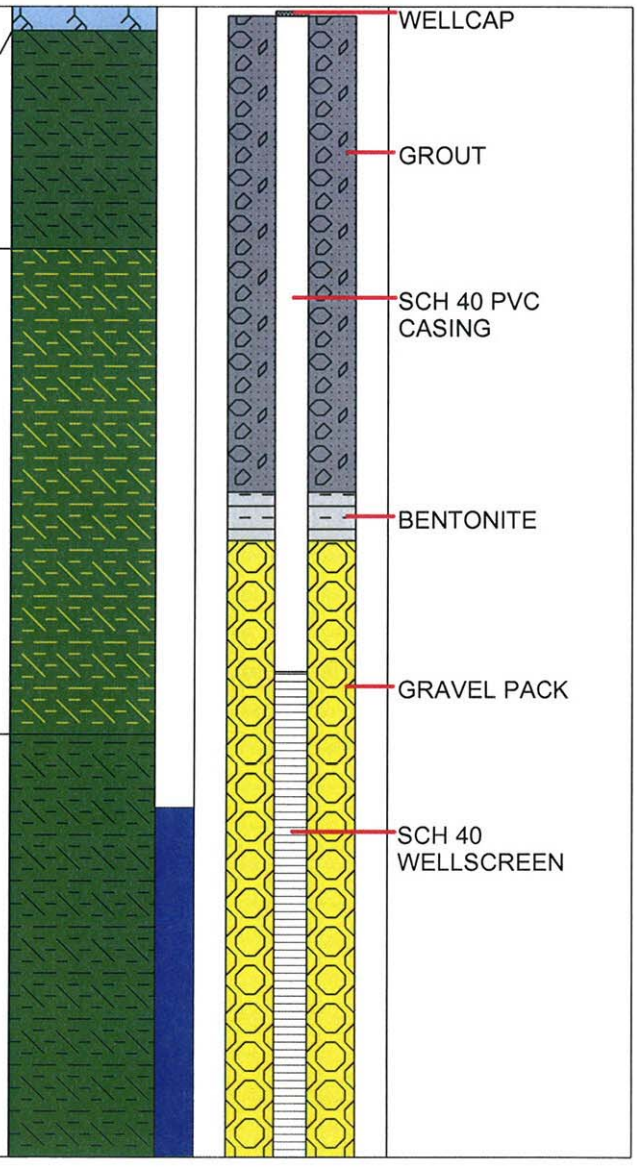
MONITORING WELL #: 02314-MW-21
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: A. KNIGHT
START DATE: 1/27/2015 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: 173.97
WATER LEVEL: 16.55 FT TOC
EASTING: -605.1083
NORTHING: 215.1145
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-13.7 FT TOC Bentonite Interval 10-11 FT BGS Filter Interval 11-23.7 FT BGS
Screen Interval 13.7-23.7 FT TOC Grout Interval 0-10 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0	1	N/A	1		TOPSOIL: Topsoil CLAYEY SILT: Dark brown soft clayey silt, some coarse grained sand, low density, low plasticity		WELLCAP
	1	0.0	1				GROUT
5	1	N/A	1		SILTY CLAY: Red orange medium soft silty clay, medium density, medium plasticity		SCH 40 PVC CASING
	1	0.7	2				
10	1	N/A	2				BENTONITE
	1	1.0	2				GRAVEL PACK
15	1	N/A	3		CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity		SCH 40 WELLSCREEN
	1	N/A	3				
20	1	N/A	3				



Total Depth = 23.7 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-22
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: 1/27/2015 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: 171.95
WATER LEVEL: 14.65 FT TOC
EASTING: -678.4974
NORTHING: 329.282
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-12.0 FT TOC Bentonite Interval 9-10 FT BGS Filter Interval 10-22.0 FT BGS
Screen Interval 12-22.0 FT TOC Grout Interval 0-9 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					CLAYEY SILT: Light brown soft clayey silt, low density, low plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SILTY CLAY: Red orange medium soft silty clay, medium density, medium plasticity		
		1	0.0	2			BENTONITE
10		1	N/A	2			
		1	N/A	3			GRAVEL PACK
15		1	N/A	3			
					CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity		SCH 40 WELLSCREEN
		1	N/A	3			
20		1	N/A	3			

Total Depth = 22.0 FT TOC

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WELL LOG

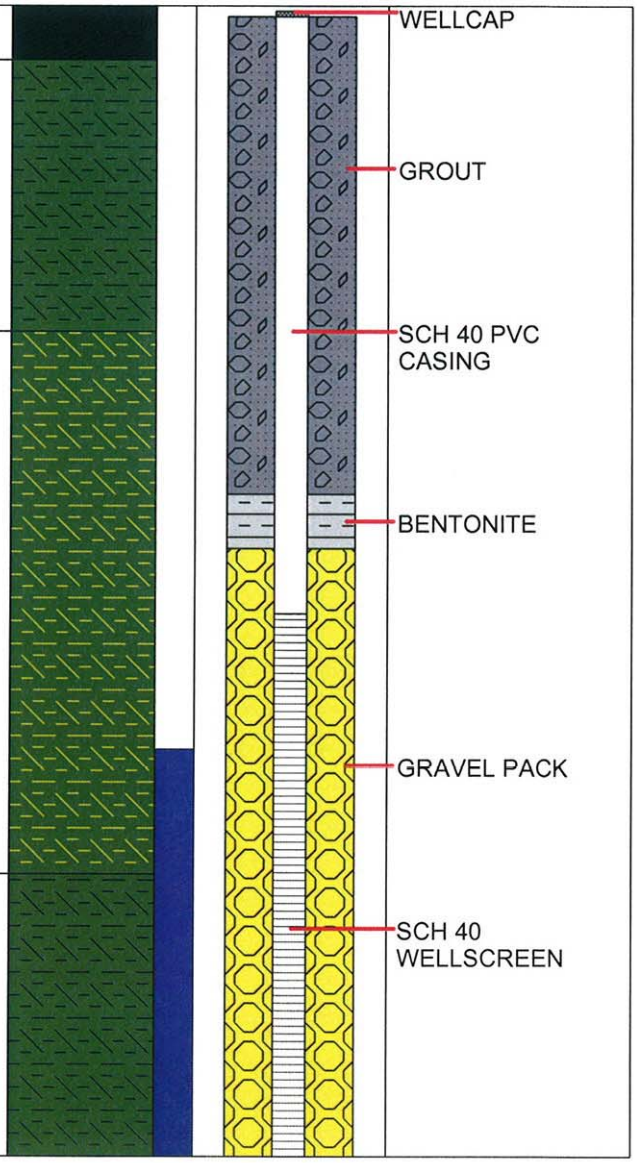
MONITORING WELL #: 02314-MW-23
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: A. KNIGHT
START DATE: 1/27/2015 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: 171.03
WATER LEVEL: 13.72 FT TOC
EASTING: -601.0077
NORTHING: 320.6641
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

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level
0		1	N/A	1	ASPHALT: Asphalt	
					CLAYEY SILT: Light brown soft clayey silt, low density, low plasticity	
		1	0.0	1		
5		1	N/A	1		
					SILTY CLAY: Red orange medium soft silty clay, medium density, medium plasticity	
		1	1.2	2		
10		1	N/A	3		
		1	N/A	3		
15		1	N/A	3		
					CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity	
		1	N/A	3		
20		1	N/A	3		



Well Construction

Total Depth = 21.2 FT TOC

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WELL LOG

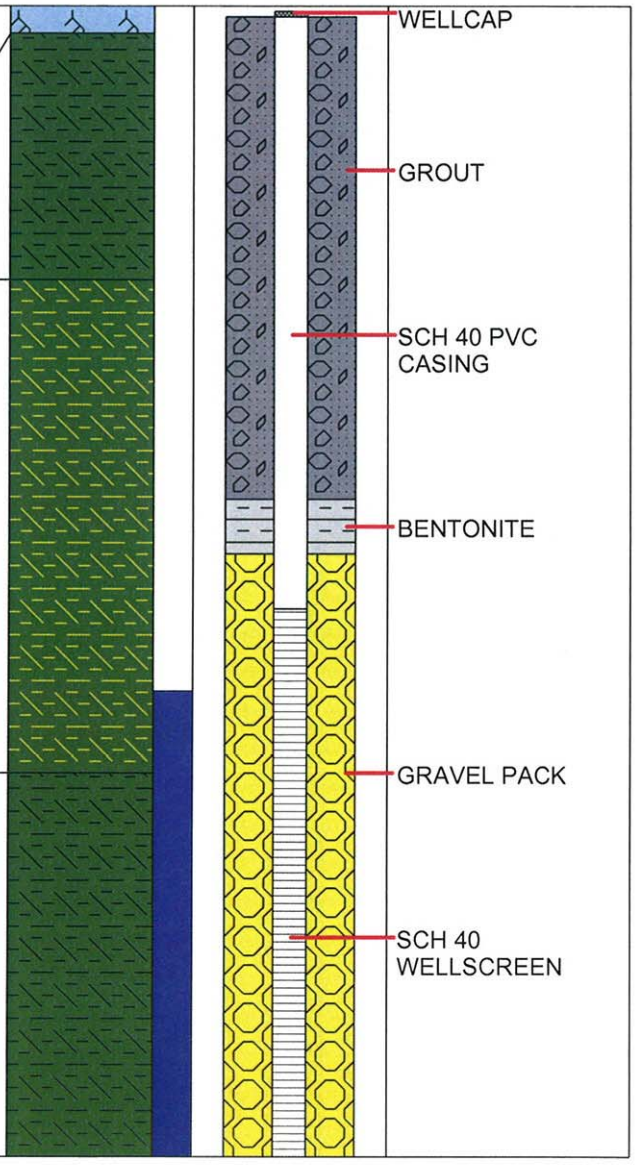
MONITORING WELL #: 02314-MW-24
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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 Filter Interval 10-21.0 FT BGS
Screen Interval 11.0-21.0 FT TOC Grout Interval 0-9 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level
0		1	N/A	1	TOPSOIL: Topsoil	
					CLAYEY SILT: Brown grey soft clayey silt, low density, low plasticity	
		1	0.0	1		
5		1	N/A	1	SILTY CLAY: Orange medium soft silty clay, medium density, medium plasticity	
		1	0.1	2		
10		1	N/A	3		
		1	N/A	3	CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity	
15		1	N/A	3		
		1	N/A	3		
20		1	N/A	3		



Well Construction

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WELL LOG

MONITORING WELL #: 02314-MW-25
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: 170.08
WATER LEVEL: 13.0 FT TOC
EASTING: -650.8658
NORTHING: 480.5677
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-11.0 FT TOC Bentonite Interval 9-10 FT BGS Filter Interval 10-21.0 FT BGS
Screen Interval 11.0-21.0 FT TOC Grout Interval 0-9 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					CLAYEY SILT: Brown soft clayey silt, low density, low plasticity		GROUT
		1	0.0	1			
5		1	N/A	1			SCH 40 PVC CASING
					SILTY CLAY: Orange medium soft silty clay, medium density, medium plasticity		
		1	0.0	2			BENTONITE
10		1	N/A	3			
							GRAVEL PACK
		1	N/A	3	CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity		
15		1	N/A	3			
							SCH 40 WELLSCREEN
		1	N/A	3			
20		1	N/A	3			

Total Depth = 21.0 FT TOC

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WELL LOG

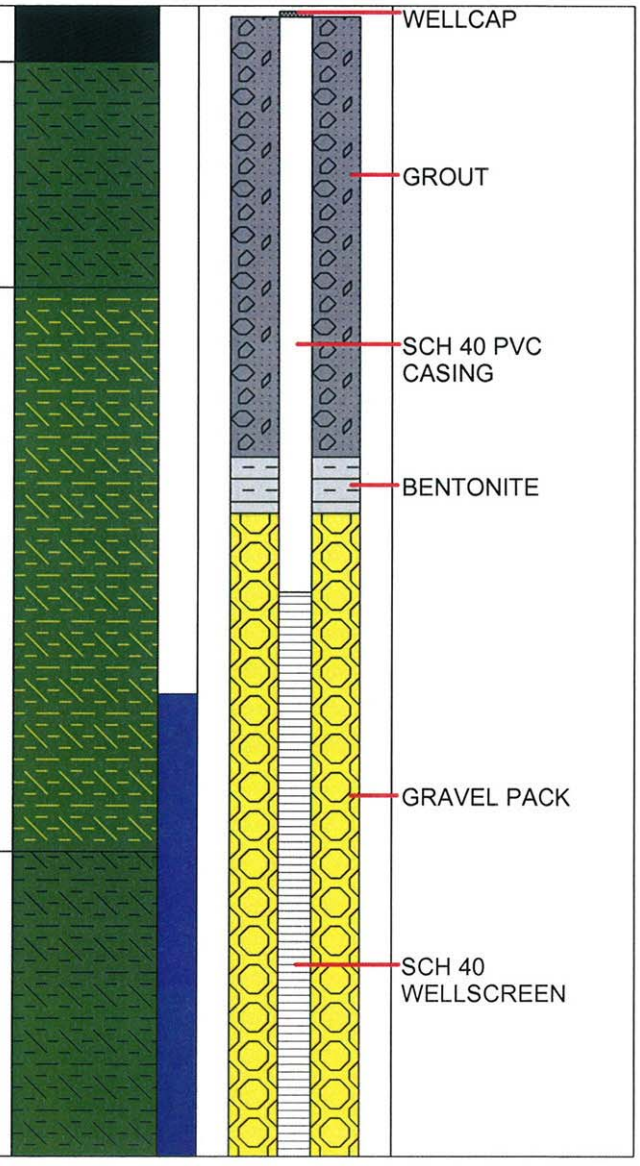
MONITORING WELL #: 02314-MW-26
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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: 169.21
WATER LEVEL: 12.24 FT TOC
EASTING: -513.5668
NORTHING: 526.4693
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.4 FT TOC Bentonite Interval 8-9 FT BGS Filter Interval 9-20.4 FT BGS
Screen Interval 10.4-20.4 FT TOC Grout Interval 0-8 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level
0		1	N/A	1	ASPHALT: Asphalt	
					CLAYEY SILT: Brown soft clayey silt, low density, low plasticity	
		1	0.0	1		
5		1	N/A	1	SILTY CLAY: Orange medium soft silty clay, medium density, medium plasticity	
		1	1.7	2		
10		1	N/A	3		
		1	N/A	3		
15		1	N/A	3	CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity	
		1	N/A	3		
20						



Well Construction

Total Depth = 20.4 FT TOC

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WELL LOG

MONITORING WELL #: 02314-MW-27
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: 168.95
WATER LEVEL: 11.81 FT TOC
EASTING: -514.6162
NORTHING: 407.3356
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 8-9 FT BGS Filter Interval 9-20.0 FT BGS
Screen Interval 10.0-20.0 FT TOC Grout Interval 0-8 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
					CLAYEY SILT: Brown soft clayey silt, low density, low plasticity		GROUT
		1	0.0	1			
5		1	N/A	1	SILTY CLAY: Orange medium soft silty clay, medium density, medium plasticity		SCH 40 PVC CASING
		1	3.9	2			BENTONITE
10		1	N/A	3			
		1	N/A	3			GRAVEL PACK
15		1	N/A	3	CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity		SCH 40 WELLSCREEN
		1	N/A	3			
20							

Total Depth = 20.0 FT TOC

TERRY ENVIRONMENTAL SERVICES
Clients First Always™
WWW.TERRYENVIRONMENTAL.COM

WELL LOG

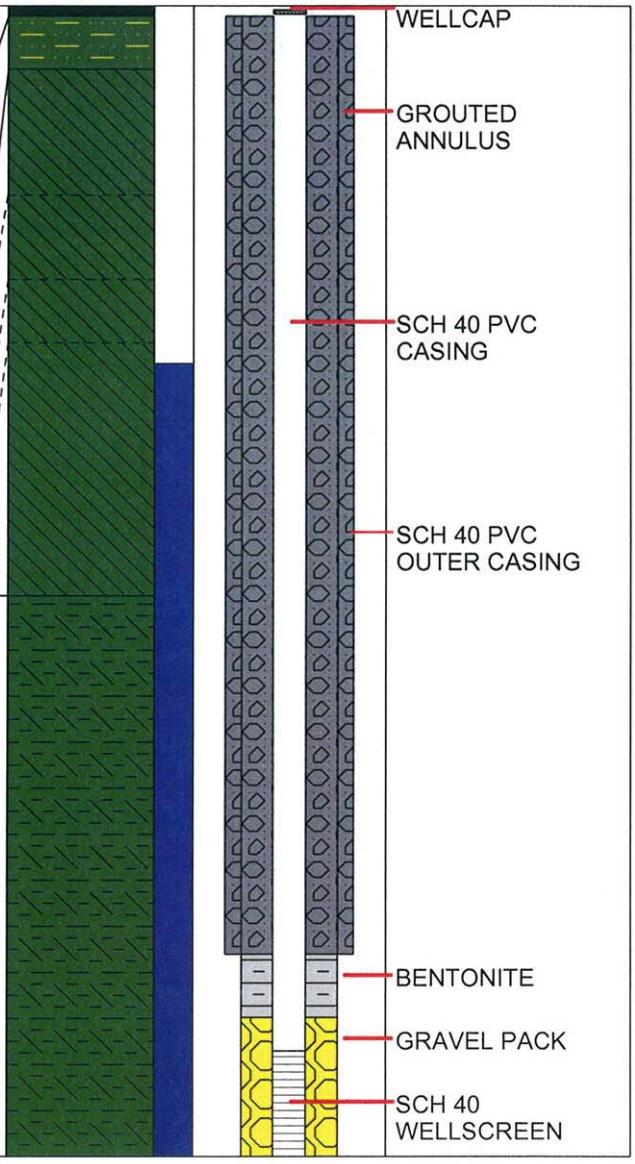
MONITORING WELL #: 02314-DW1
TERRY PROJECT #: 2171.9A
PROJECT LOCATION: CHERAW, SC

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"
SCREEN DIAMETER: 2"
TOP OF CASING ELEVATION: 173.59
WATER LEVEL: 16.97 FT TOC
EASTING: -332.2967
NORTHING: 203.137
DEVELOPMENT: PUMPING/SURGING

Casing Interval 0-49.6 FT TOC Bentonite Interval 45-48 FT BGS Filter Interval 48-54.6 FT BGS
Screen Interval 49.6-54.6 FT TOC Grout Interval 0-45 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	ASPHALT: Asphalt		WELLCAP
5		1	0.5	1	SANDY CLAY: Brown fine to medium grained medium soft sandy clay, low density, low plasticity		GROUTED ANNULUS
		1	N/A	1			
10		1	4.1	2	CLAY: Brown red medium soft clay, some medium grained sand, low density, high plasticity		
		1	N/A	2			
15		1	0.0	2	CLAY: Dark red stiff clay, some medium to coarse grained sand, high density, medium plasticity		SCH 40 PVC CASING
		1	N/A	3			
20					CLAY: Red stiff clay, high density, medium plasticity		
25					CLAY: Brown red stiff clay, medium density, high plasticity		SCH 40 PVC OUTER CASING
30					CLAYEY SILT: Orange red clayey silt, low density, fluid plasticity		
35							
40							
45							BENTONITE
							GRAVEL PACK
50							SCH 40 WELLSCREEN



Total Depth = 54.6 FT TOC

TERRY ENVIRONMENTAL SERVICES
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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
Screen Interval 44.6-49.6 FT TOC Grout Interval 0-42 FT BGS Filter 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
0		1	N/A	1	TOPSOIL: Topsoil		WELLCAP
		1	0.0	1	CLAYEY SILT: Brown grey soft clayey silt, low density, low plasticity		
5		1	N/A	1			SCH 40 PVC CASING
		1	0.1	2	SILTY CLAY: Orange medium soft silty clay, medium density, medium plasticity		
10		1	N/A	2			GROUT
		1	0.2	2	CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity		
15		1	N/A	3			
20							
25							
30							
35					SILTY SAND: Light orange coarse grained silty sand, some poorly sorted gravel		BENTONITE
					SILTY SAND: Light tan coarse grained silty sand		GRAVEL PACK
40							
45							SCH 40 WELLSCREEN

Total Depth = 49.6 FT TOC

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WELL LOG

MONITORING WELL #: 02314-DW-3
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: 169.93
WATER LEVEL: 13.72 FT TOC
EASTING: -609.3149
NORTHING: 421.8643
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-44.6 FT TOC Bentonite Interval 42-43 FT BGS Filter Interval 43-49.6 FT BGS
Screen Interval 44.6-49.6 FT TOC Grout Interval 0-42 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		1	N/A	1	TOPSOIL: Topsoil		WELLCAP
					CLAYEY SILT: Dark brown soft clayey silt, some coarse grained sand, low density, low plasticity		GROUT
5		1	0.0	1			
		1	N/A	1	SILTY CLAY: Red orange medium soft silty clay, medium density, medium plasticity		SCH 40 PVC CASING
		1	0.7	2			
10		1	N/A	2			
							GRAVEL PACK
		1	N/A	2			
15		1	N/A	3	CLAYEY SILT: Light orange clayey silt, low density, fluid plasticity		
20							
25							
30							
35					SILTY SAND: Light orange coarse grained silty sand, some poorly sorted gravel		
40					SILTY SAND: Light tan coarse grained silty sand		BENTONITE
45							SCH 40 WELLSCREEN

Total Depth = 49.6 FT TOC

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.29" Longitude: 79° 55' 27.43"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-2R

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☑ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 09/25/14
20.0 ft. Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: _____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Johnny Burr Date: 10/08/14
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.11" Longitude: 79° 55' 27.44"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-5

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☑ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr Well Driller Date: 10/08/14

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 47.50" Longitude: 79° 55' 27.01"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-6

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☑ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr (Well Driller) Date: 10/08/14

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.11" Longitude: 79° 55' 27.43"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-7

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Johnny Burr (Well Driller) Date: 10/08/14

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.55" Longitude: 79° 55' 27.21"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-8

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☑ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 09/25/14
20.0 ft. Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: _____ 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: JOHNNY BURR **CERT. NO.:** 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr Well Driller Date: 10/08/14

If D Level Driller, provide supervising driller's name:

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.55" Longitude: 79° 55' 27.21"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-9

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR **CERT. NO.:** 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr (Well Driller) Date: 10/08/14

If D Level Driller, provide supervising driller's name:

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 47.72" Longitude: 79° 55' 22.44"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-10

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR **CERT. NO.:** 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Johnny Burr Well Driller Date: 10/08/14

If D Level Driller, provide supervising driller's name:

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 48.21" Longitude: 79° 55' 27.12"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-11

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
BLACK TOPSOIL	1.0	1.0
ORANGE SANDY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☑ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Johnny Burr Well Driller Date: 10/08/14

If D Level Driller, provide supervising driller's name:

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.88" Longitude: 79° 55' 27.21"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-12

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
BLACK TOPSOIL	1.0	1.0
ORANGE SANDY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☑ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR **CERT. NO.:** 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Johnny Burr Well Driller Date: 10/08/14

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 48.21" Longitude: 79° 55' 22.44"

3. PUBLIC SYSTEM NAME: 02314 PUBLIC SYSTEM NUMBER: MW-13

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: _____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☐ ☑ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr Date: 10/08/14
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.55" Longitude: 79° 55' 27.21"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-14

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
BLACK TOPSOIL	1.0	1.0
ORANGE SANDY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr Well Driller Date: 10/08/14

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.51" Longitude: 79° 55' 27.28"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** MW-15

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY SILTY CLAY	3.0	4.0
TAN SANDY CLAY	16.0	20.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20.0 ft. Date Started: 09/25/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 10.0 ft. and 20.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 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: ____ 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr Well Driller Date: 10/08/14

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
02314-MW16

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 14.0'-15.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 26.0 ft. Date Started: 11/8/2014 Date Completed: 11/8/2014

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 16.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: ____
Set Between: 16.0 ft. and 26 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 21.50 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 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 ☐ 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John A Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name: Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-MW17

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 7.0'-8.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☑ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/4/2014
20.4 ft. Date Completed: 11/5/2014

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 10.4 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: ____
Set Between: 10.4 ft. and 20.4 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 20.10 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 ft. to 20.4 ft.
Effective size 2 Uniformity Coefficient ____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 7.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name: Randy Beard

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-MW18

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 11.0'-12.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/5/2014
24.6 ft. Date Completed: 11/5/2014

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 14.6 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 14.6 ft. and 24.6 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 17.40 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 12.0 ft. to 24.6 ft.
Effective size 2 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr Well Driller Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW19 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 9.0'-10.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 22.3 ft. Date Started: 11/6/2014 Date Completed: 11/6/2014

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 12.3 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 12.3 ft. and 22.3 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 14.15 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 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 0.0 ft. to 9.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brannel

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW20 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 9.0'-10.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 22.2 ft. Date Started: 11/6/2014 Date Completed: 11/6/2014

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 12.2 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 12.2 ft. and 22.2 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 14.35 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 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 9.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW21 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 10.0'-11.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 23.7 ft. Date Started: 1/27/2015 Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 13.7 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 13.7 ft. and 23.7 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 16.55 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 11.0 ft. to 23.7 ft.
Effective size 2 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 10.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW22 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 9.0'-10.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 22.0 ft. Date Started: 1/27/2015 Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 12.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 12.0 ft. and 22.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 14.65 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 10.0 ft. to 22.0 ft.
Effective size 2 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 9.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW23 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 9.0'-10.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 21.2 ft. Date Started: 1/27/2015 Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 11.2 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 11.2 ft. and 21.2 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 13.72 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 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 0.0 ft. to 9.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brame

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW24 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 9.0'-10.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 21.0 ft. Date Started: 1/28/2015 Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 11.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 11.0 ft. and 21.0 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 12.54 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 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 0.0 ft. to 9.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brantl

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW25 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 9.0'-10.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 1/28/2015
21.0 ft. Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 11.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 11.0 ft. and 21.0 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 13.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 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 0.0 ft. to 9.0 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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brantley

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW26 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 8.0'-9.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 1/28/2015
20.4 ft. Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 10.4 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 10.4 ft. and 20.4 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 12.2 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 9.0 ft. to 20.4 ft.
Effective size 2 Uniformity Coefficient _____

16. WELL GROUTED? ☑ 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
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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: 02314-MW27 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 8.0'-9.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 1/28/2015
20.0 ft. Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 10.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 10.0 ft. and 20.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 11.81 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 9.0 ft. to 20.0 ft.
Effective size 2 Uniformity Coefficient _____

16. WELL GROUTED? ☑ 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
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
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HWY
City: CHERAW Zip: 29520
Latitude: 34° 41' 49.17" Longitude: 79° 55' 26.61"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** DMW-1

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT	0.5	0.5
GRAVEL	0.5	1.0
ORANGE SANDY CLAY	3.0	4.0
TAN SANDY CLAY	24.0	28.0
BROWN SANDY CLAY	17.0	45.0
GRAY SANDY CLAY	10.0	55.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 45.0 TO 48.0 FT. 6 INCH PVC SURFACE CASING GROUTED FROM 0.0 TO 45.0 FT

6. TYPE: ☑ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 55.0 ft. Date Started: 09/24/14 Date Completed: 09/25/14

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 50.0 ft. depth
6.0 in. to 45.0 ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 50.0 ft. and 55.0 ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 48.0 ft. to 55.0 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 45.0 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: JOHNNY BURR CERT. NO.: 01740
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Johnny Burr Date: 10/08/14
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-DW2

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 42.0-43.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 1/29/2015
49.6 ft. Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 44.6 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 44.6 ft. and 49.6 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 16.59 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 43.0 ft. to 49.6 ft.
Effective size 2 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 42.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John L Kerr (Well Driller) Date: 3/5/15

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL CO. (last) (first)
Address: PO BOX 968
City: CHERAW State: SC Zip: 29520-0968
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** CHESTERFIELD
Name: JACKSON OIL
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**
02314-DW3

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE WELL CONSTRUCTION LOGS		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL: 42.0'-43.0'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☑ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMW-25497

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 1/29/2015
49.6 ft. Date Completed: 1/30/2015

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2.0"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 44.6 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2.0"
Slot/Gauge: 0.010 Length: _____
Set Between: 44.6 ft. and 49.6 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 13.72 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☑ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 43.0 ft. to 49.6 ft.
Effective size 2 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 42.0 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) 14 SAND DUNE LANE, ISLE OF PALMS, SC, 29451
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 843-873-8200 Fax No.: 843-873-8765

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: John S Kerr Date: 3/5/15
Well Driller

If D Level Driller, provide supervising driller's name:
Randy Brand

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX F

Aquifer Evaluation Forms

SUMMARY of SLUG TEST FORM

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

UST Permit #: 02314 County: Chesterfield

Facility Name: Windsor Mart

Slug Data

See Appendix F Table _____ Figure _____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by Pressure Transducer and Data logger
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method).

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	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	
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 F for calculations.

The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	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 conductivity was 65 feet.

The aquifer is ___ confined ___ semi-confined x water table (Check as appropriate).

The estimated seepage velocity is 0.026 ft/year based on an average hydraulic conductivity of 0.0631 ft/day (shallow), a hydraulic gradient of 0.0028 ft/ft, and a porosity of 25 percent for a clayey silt/sandy clay soil (list type i.e., silty sand, clay, etc...).

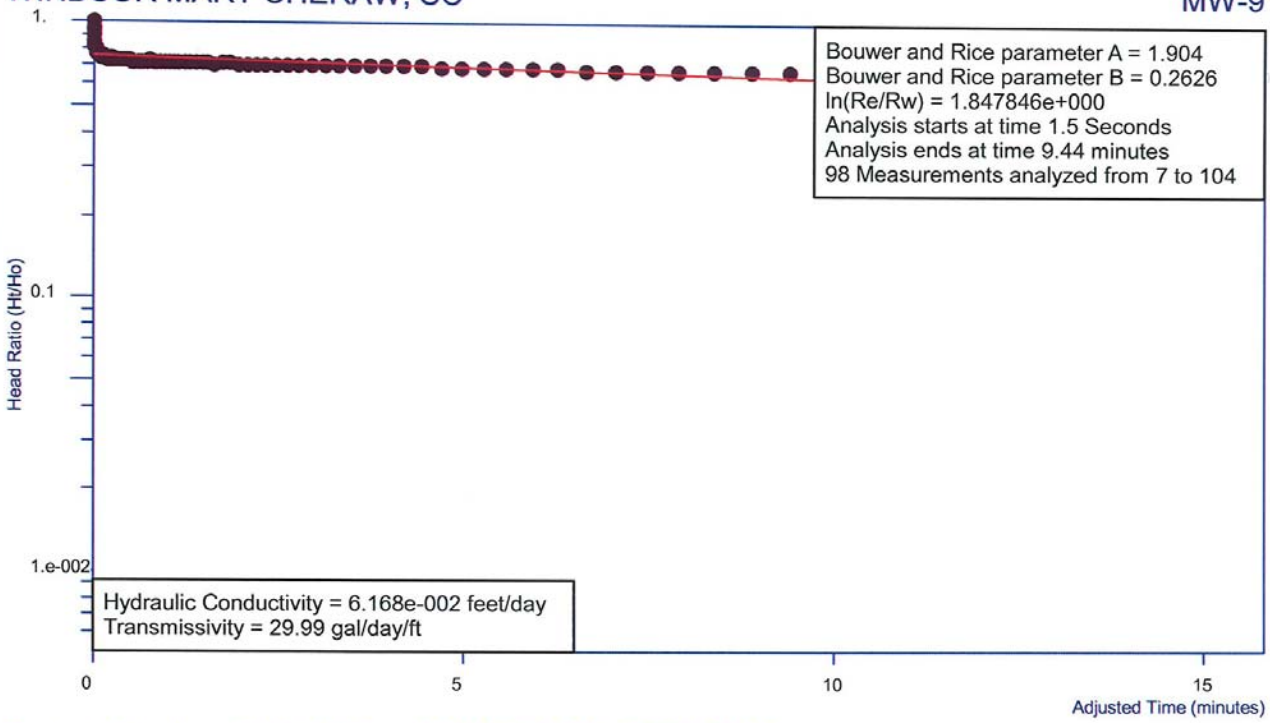
SUMMARY of SLUG TEST FORM

SLUG TEST (MW-9) 9/29/2014

WINDSOR MART CHERAW, SC

Bouwer and Rice Graph

MW-9



Project Number: 2171.9A for JACKSON OIL COMPANY

Analysis by Starpoint Software

Ho is 2.036 feet at 1.5 Seconds

SLUG TEST (MW-9)

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-9
Aquifer Thickness:	65. feet
Screen Length:	10. feet
Casing Radius:	8.33e-002 feet
Effective Radius:	0.25 feet
Static Water Level:	16.53 feet
Water Table to Screen Bottom:	2.77 feet
Anisotropy Ratio:	1.
Time Adjustment:	1.5 Seconds

Test starts with trial 5
There are 113 time and drawdown measurements
Maximum head is 2.2 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-1.5	17.86	1.335	0.6068
2	0.25	-1.25	17.86	1.332	0.6055
3	0.5	-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.	1.469	0.6677
57	37.86	36.36	18.	1.47	0.6682
58	40.08	38.58	18.	1.472	0.6691
59	42.48	40.98	17.99	1.463	0.665
60	45.	43.5	17.98	1.455	0.6614
61	47.64	46.14	18.01	1.48	0.6727
62	50.46	48.96	18.	1.467	0.6668
63	53.46	51.96	18.	1.467	0.6668
64	56.64	55.14	18.	1.47	0.6682
65	60.	58.5	18.	1.466	0.6664
66	63.6	62.1	18.	1.466	0.6664
67	67.2	65.7	17.99	1.458	0.6627
68	71.4	69.9	17.99	1.459	0.6632
69	75.6	74.1	17.99	1.456	0.6618
70	79.8	78.3	17.99	1.459	0.6632
71	84.6	83.1	17.99	1.463	0.665
72	90.	88.5	17.98	1.449	0.6586
73	94.8	93.3	17.99	1.456	0.6618
74	100.8	99.3	17.98	1.446	0.6573
75	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	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

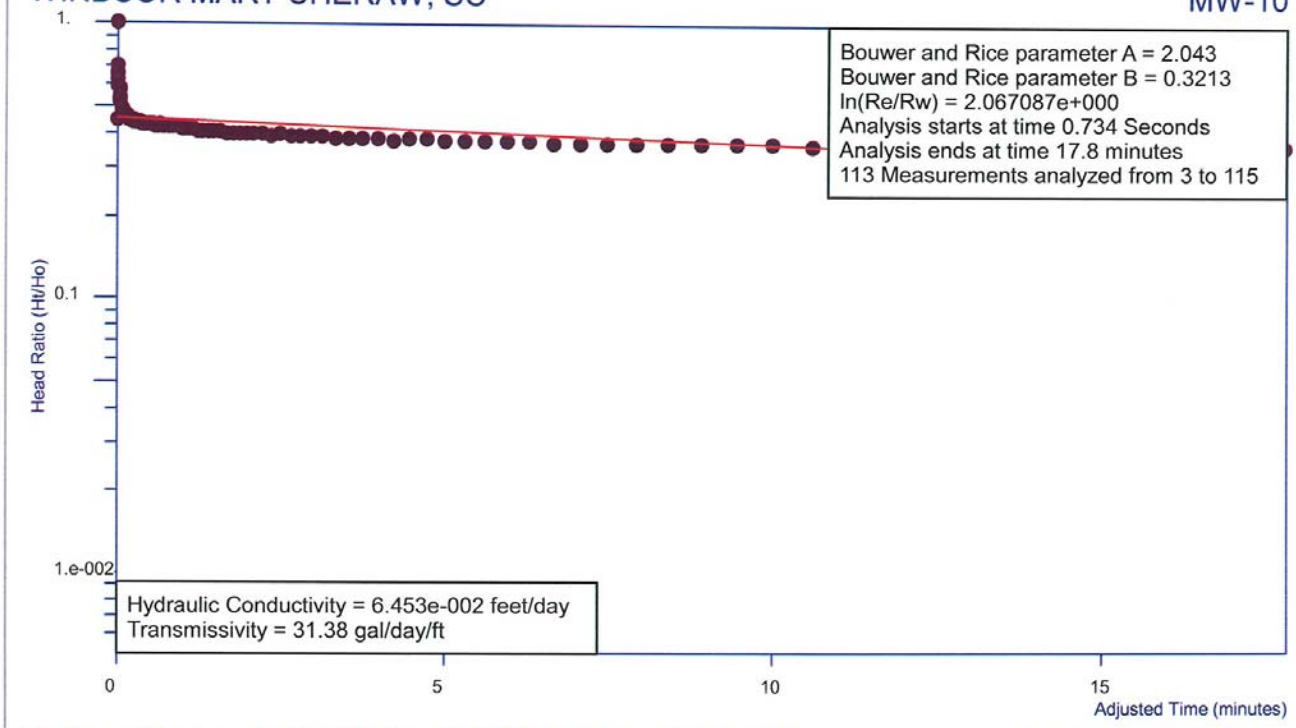
91	268.2	266.7	17.96	1.427	0.6486
92	283.8	282.3	17.94	1.412	0.6418
93	300.6	299.1	17.95	1.421	0.6459
94	318.6	317.1	17.94	1.405	0.6386
95	337.2	335.7	17.94	1.407	0.6395
96	357.6	356.1	17.93	1.404	0.6382
97	378.6	377.1	17.93	1.398	0.6355
98	400.8	399.3	17.92	1.394	0.6336
99	424.8	423.3	17.92	1.387	0.6305
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) 9/29/2014

WINDSOR MART CHERAW, SC

Bouwer and Rice Graph

MW-10



Project Number: 2171.9A for JACKSON OIL COMPANY

Analysis by Starpoint Software

Ho is 3.218 feet at 0.734 Seconds

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 (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
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	17.51	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

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	17.4	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

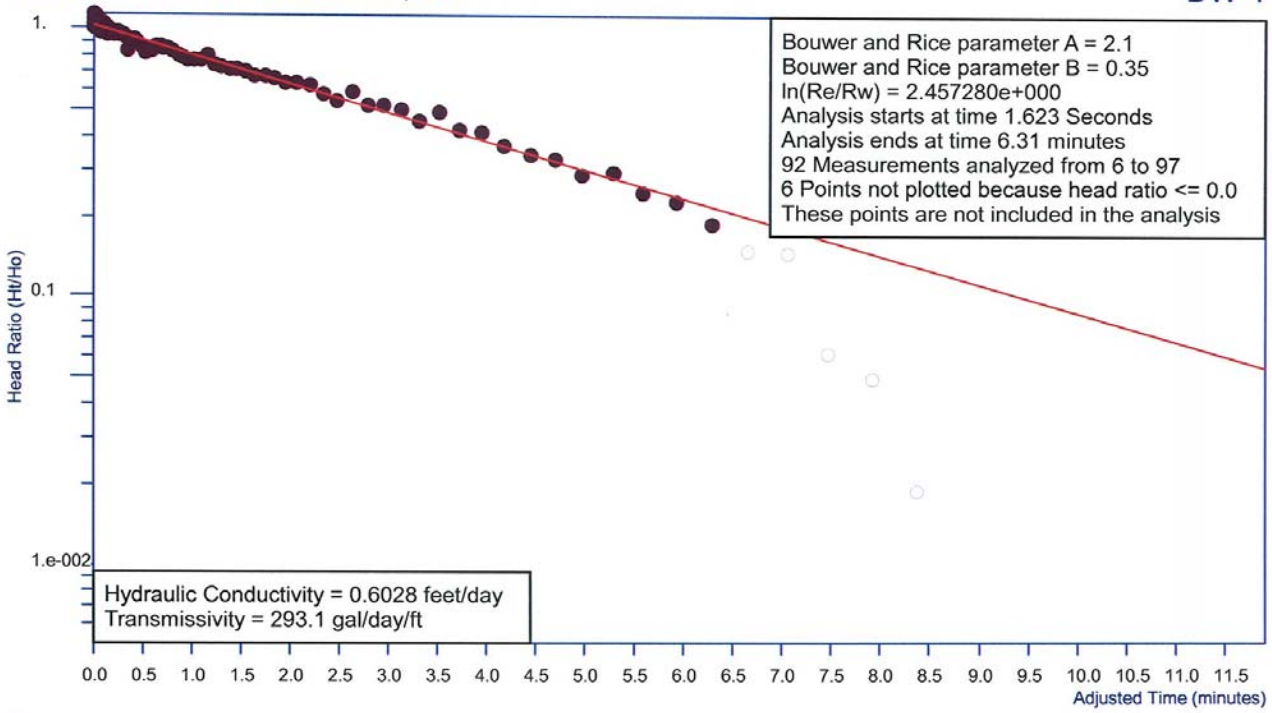
91	268.2	267.5	17.29	1.228	0.3816
92	283.8	283.1	17.29	1.231	0.3825
93	300.6	299.9	17.28	1.215	0.3776
94	318.6	317.9	17.27	1.206	0.3748
95	337.2	336.5	17.28	1.22	0.3791
96	357.6	356.9	17.27	1.208	0.3754
97	378.6	377.9	17.27	1.207	0.3751
98	400.8	400.1	17.26	1.202	0.3735
99	424.8	424.1	17.25	1.19	0.3698
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
109	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	1.18	0.3667
115	1068	1067	17.22	1.163	0.3614

SLUG TEST (DW-1) 9/29/2014

WINDSOR MART CHERAW, SC

Bouwer and Rice Graph

DW-1



Project Number: 2171.9A for JACKSON OIL COMPANY

Analysis by Starpoint Software

Ho is 0.4146 feet at 1.623 Seconds

SLUG TEST (DW-1)

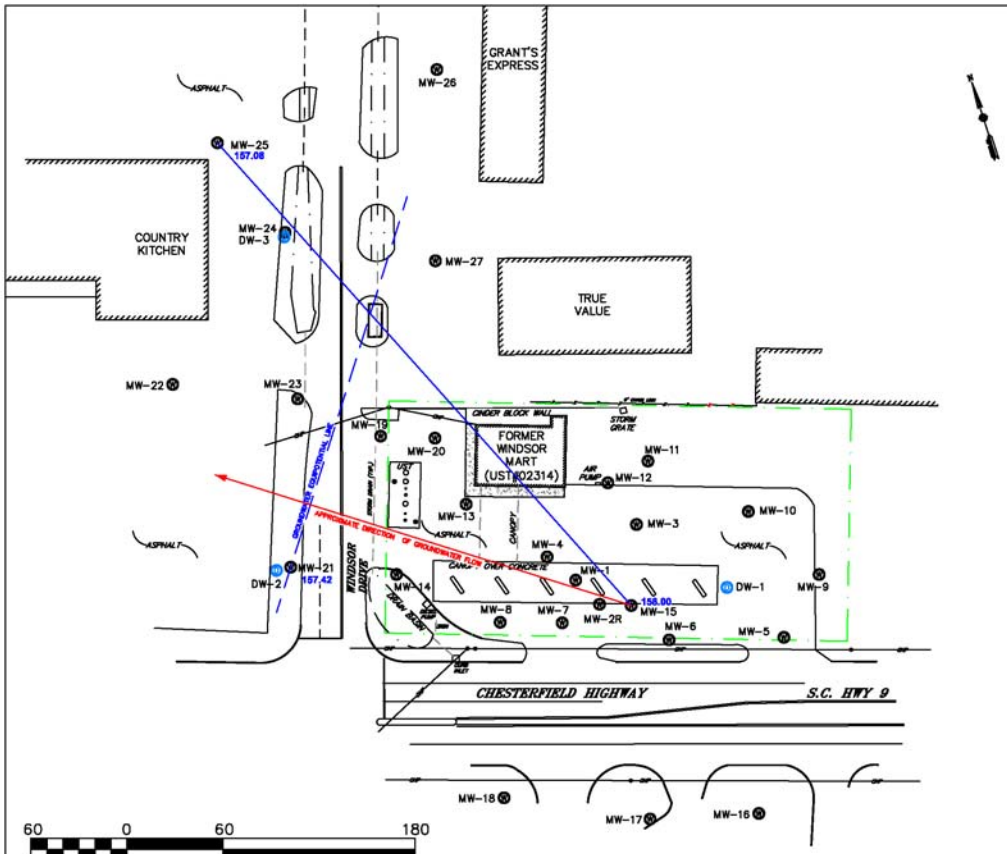
Site Name:	WINDSOR MART
Location:	CHERAW, SC
Test Date:	9/29/2014
Client:	JACKSON OIL COMPANY
Project Number:	2171.9A
Import File:	C:\Users\bspillane\Documents\WinSitu Data\Exported Data\windsor Mart\TA
Well Label:	DW-1
Aquifer Thickness:	65. feet
Screen Length:	5. feet
Casing Radius:	8.33e-002 feet
Effective Radius:	0.25 feet
Static Water Level:	17.19 feet
Water Table to Screen Bottom:	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 (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
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	-9.64e-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



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- BUILDING

HYDRAULIC GRADIENT CALCULATIONS

(158.00-157.08)/387.80 = (158.00-157.42)/X

0.92X ft = 224.92 ft²

X = 244.46 ft

DL/L = (158.00-157.42 ft)/210.04 ft

DL/L = 0.0028 ft/ft

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

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

APPENDIX F
HYDRAULIC GRADIENT MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 60'	DATE March 2015

APPENDIX G

Disposal Manifests

TERRY Environmental Services, Inc.

Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, 110 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
CLIENTS FIRST ALWAYS

TERRY Environmental Services, Inc.

Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, 54.75 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

TERRY Environmental Services
CLIENTS FIRST ALWAYS

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address
WINDSOR MART
820 CHESTERFIELD Hwy
CHERAW, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name
HERR, INC

6. US EPA ID Number
NCR000139816

A. State Transporter's ID

B. Transporter 1 Phone 910 640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
HERR, INC
820 CHESTERFIELD HWY
~~HERR~~ WHITEVILLE, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Soil cutting,	1	BR	9	3.23
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS WASTE

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Date 2/16/15

Printed/Typed Name BH

Signature

Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Date

Printed/Typed Name Norm Jensen

Signature

Month Day Year 2 16 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Date

Printed/Typed Name

Signature

Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19

Date

Printed/Typed Name Mac Cox

Signature

Month Day Year 2 17 15

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NON-HAZARDOUS WASTE MANIFEST

1 Generator ID Number: Terry Environmental

2 Page 1 of: 1

3 Job Number: D-12102322

4 Waste Tracking Number: 2322- 2

GENERATOR

5 Generator's Name and Mailing Address
Windsor Mart
820 Chesterfield Hwy, Cheraw, SC
Generator's Phone:

Generator's Site Address (if different than mailing address)

6 Transporter 1 Company Name: JBR Environmental Services (864) 583-2717
U S EPA ID Number: SCR000004358

7 Transporter 2 Company Name
U S EPA ID Number

8 Designated Facility Name and Site Address
JBR Environmental Services
210 Alice St.
Spartanburg, SC 29303 (864) 583-2717
Facility's Phone
U S EPA ID Number: SCR000004358

	9 Waste Shipping Name and Description	10 Containers No	10 Containers Type	11 Total	12 Unit	
1	Non-DOT /Non-RCRA Regulated Material (Purge Water)	2	DM		P	28540 LBS 16240 LBS
2	Non-DOT/Non-RCRA Regulated Material (Soil)	18	DM		P	12300 LBS 6.15 TON
3						
4						

13 Special Handling Instructions and Additional Information
1)Profile #TE-1114508
2)Profile #TE-1114509

14 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: K K Cone as agent Jackson Oil
Signature: as agent
Month 12 Day 09 Year 14

INT'L

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

TRANSPORTER

16 Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Holgerson
Signature:
Month 12 Day 10 Year 14
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17 Discrepancy
17a Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b Alternate Facility (or Generator)
U S EPA ID Number:
Facility's Phone:
17c Signature of Alternate Facility (or Generator)
Month Day Year

18 Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Scott Edel
Signature: Scott Edel
Month 12 Day 10 Year 14

JBR Revision 4/13

NON-HAZARDOUS WASTE MANIFEST

1 Generator ID Number: Terry Environmental | 2 Page 1 of: 1 | 3 Job Number: D-12102322 | 4 Waste Tracking Number: 2322-1

5 Generator's Name and Mailing Address
Windsor Mart
820 Chesterfield Hwy, Cheraw, SC
Generator's Phone:

Generator's Site Address (if different than mailing address)

6 Transporter 1 Company Name: JBR Environmental Services (864) 583-2717 | U S EPA ID Number: SCR000004358

7 Transporter 2 Company Name | U S EPA ID Number:

8 Designated Facility Name and Site Address
JBR Environmental Services
210 Alice St.
Spartanburg, SC 29303 (864) 583-2717
Facility's Phone:

B.T.# 24 | U S EPA ID Number: SCR000004358 | 28,440

	9 Waste Shipping Name and Description	10 Containers No	Type	11 Total	12 Unit	
1	Non-DOT /Non-RCRA Regulated Material (Purge Water)	3	DM		P	16240 / 12200 LBS
2	Non-DOT/Non-RCRA Regulated Material (Soil)	17	DM		P	6.10 TON
3						
4						

13 Special Handling Instructions and Additional Information
1)Profile #TE-1114508
2)Profile #TE-1114509

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

GENERATOR

Generator's/Offeror's Printed/Typed Name: K K Cone as agent Jackson O. I | Signature: | Month 12 Day 09 Year 14

INT'L

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

TRANSPORTER

16 Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tim Chumley | Signature: | Month 12 Day 10 Year 14
Transporter 2 Printed/Typed Name | Signature | Month Day Year

DESIGNATED FACILITY

17 Discrepancy
17a Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b Alternate Facility (or Generator) | U S EPA ID Number:
Facility's Phone:
17c Signature of Alternate Facility (or Generator) | Month Day Year

18 Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Scott Edwards | Signature: Scott Edwards | Month 12 Day 10 Year 14

JBR Revision 4/13

APPENDIX H

Local Zoning Regulations
(Not Applicable)

APPENDIX I

Fate and Transport Modeling Data
(Not Applicable)

APPENDIX J

Access Agreements

RIGHT OF ENTRY

I, Donna Keith certify that I am the legal owner or the authorized representative for Kand Associates LLC (owner) of the property described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced property for the following purposes:

Name of Facility: 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

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: Donna Keith

Signature: Donna Keith

Telephone #: 704-391-1041

Witness: Todd Chandler Todd Chandler

Date 8/29/14

Terry Project: Jackson Oil Co. Windsor Mart – 2171.9A

843 - 873 - 8765

RIGHT OF ENTRY

I, Jimmy M. Kirkley certify that I am the legal owner or the authorized representative for CMC Building Supply, Inc. owner) of the property described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced property for the following purposes:

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: Jimmy M. Kirkley

Signature: Jim M. Kirkley

Telephone #: 843-537-3632

Witness: Kathy Ainsworth

Date 1/9/15

Terry Project: Jackson Oil Co. Windsor Mart – 2171.9A

RIGHT OF ENTRY

I, _____ certify that I am the legal owner or the authorized representative for Icha Bud Merriman, Jr., owner) of the property described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the 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 Jr

Signature: _____

Telephone #: 843-623-6217 Home

Witness: _____

Date 1-12-15

Terry Project: Jackson Oil Co. Windsor Mart - 2171.9A

RIGHT OF ENTRY

I, William E. Hutto certify that I am the legal owner or the authorized representative for Hutto Brothers LLP (owner) of the property described below. Permission is hereby granted to TERRY Environmental Services, Inc. (TERRY) and its agents to enter the referenced property for the following purposes:

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: William E. Hutto

Signature: William E. Hutto

Telephone #: (843) 230-4972

Witness: Heidi D Hutto

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	Type	Route	Aux	Begin MP	End MP
	Chesterfield, SC	S-	341	None	1.573	1.585
	Chesterfield, SC	SC	9	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.

Application for Encroachment Permit

S.C. Department of Transportation
Form 637 (Rev 05/2013)

#170474

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.

Applicant's Name: Kelly Cone (Please print or type) **Date:** 5/30/2014

Applicant's Sig: _____ **Title:** Project Manager

For Office Use Only

In accordance with your request and subject to all the provisions, terms, conditions, and restrictions stated in the application and the general and special provisions attached hereto, the SCDOT hereby approves your application for an encroachment permit. This permit shall become null and void unless the work contemplated herein shall have been completed prior to:

☐ **See attached Special Provision and/or Permit Requirements**

NPDES Permit Nbr:

(Date received by res. Maint. Engr.) (SCDOT Approval) 6-27-14 (Date)

☐ **Resident Maintenance Engineer** ☐ **Deputy Secretary for Engineering**

☐ **District Engineering Administrator** ☐ **District Maint./Constr. Engineer**

Application for Encroachment Permit
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 pavement shall be cut unless specifically authorized herein.
    (d) No excavation shall be nearer than three feet to the edge of pavement unless specifically authorized
    herein.
    (e) Underground facilities will be located at minimum depths as defined in the "Utility Accommodations Manual" for the transmittant, generally as follows: 4 feet minimum for hazardous or dangerous transmittant, 3 feet minimum for other lines. The Department may approve shallower depths if adequate protection is provided. Such approval must be obtained in
    writing.
    (f) Service and other small diameter pipes shall be jacked, driven, or otherwise forced underneath the pavements on any surfaced road without disturbing the pavement. The section under the highway pavement and within a distance of three (3) feet on either side shall be continuous without joints.
11. ACCESS:
    (a) Permittee is responsible for maintaining reasonable access to private driveways during construction. (b) It is expressly provided that, with respect to any limited access highway, the Permittee shall not have or gain access from the main traveled way of the highway, or the on or off ramps to such facility, except upon approval by the Department.

12. **DRIVEWAYS:**

(a) The existing crown of the highway shall be continued to the outside shoulder line of the highway.

(b) If the driveway or approach is concrete pavement, the pavement shall be constructed at least 6 inches thick and with a minimum of class 2500 concrete. There shall be a bituminous expansion joint, not less than 3/4 inches in thickness, placed between the highway paving and the paving of the approach for the full width of the approach.

13. **BEAUTIFICATION:**

(a) All trees, plants, flowers, etc. shall be placed in accordance with the provisions specifically stipulated
herein.

(b) All trees, plants, flowers, etc. shall be maintained by, and at the expense of, the Permittee and the provisions of this permit shall become null and void, if and when said Permittee ceases to maintain 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

Contractor Checklist – Windsor Mart

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?	X		
14	Has a description of the soil sample collection and preservation been detailed?	X		
15	Has the field screening methodology and procedure been detailed?	X		
16	Has the monitoring well installation and development dates been provided?	X		
17	Has the method of well development been detailed?	X		
18	Has justification been provided for the locations of the monitoring wells?	X		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?	X		
27	Does the report include a brief discussion of the fate & transport models used?			X
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.

D H E C

PROMOTE PROTECT PROSPER

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.**

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.

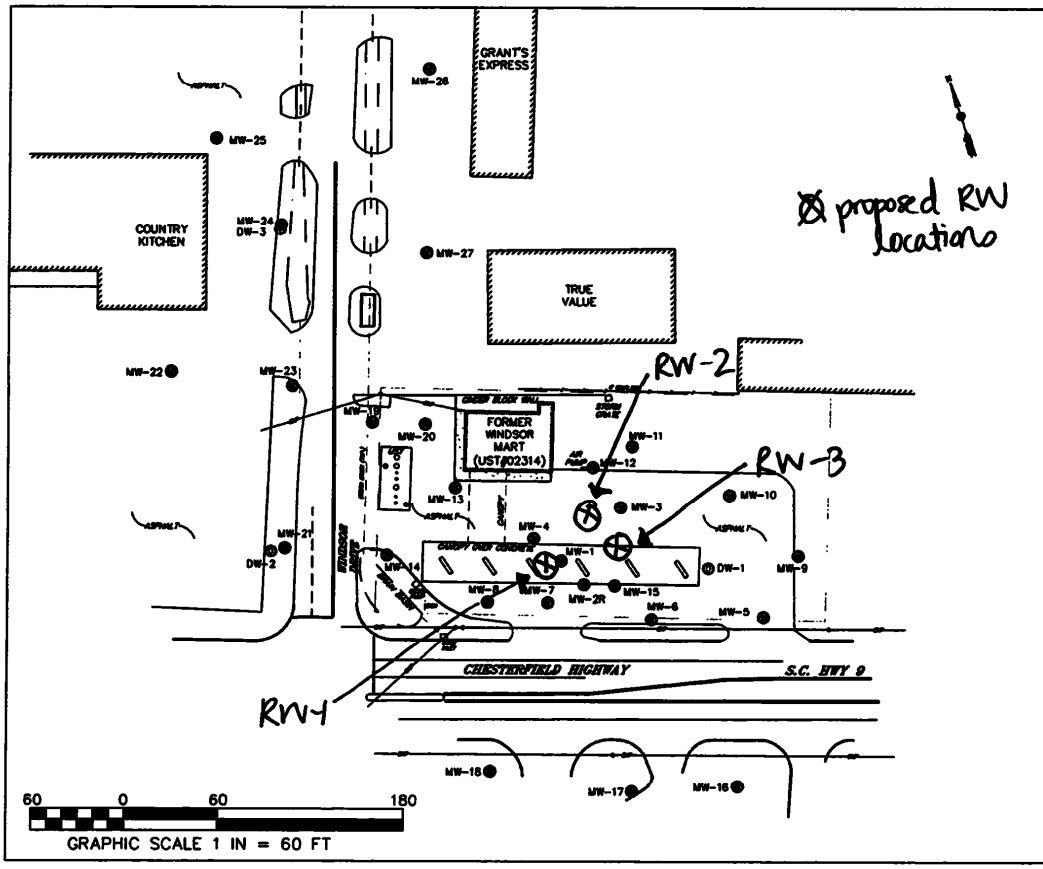
Sincerely,

Ashleigh Thrash

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.)



⊗ proposed RW locations

LEGEND & ABBREVIATIONS:

APPROXIMATE PROPERTY LINE
POWER POLE WITH OVERHEAD POWER
MONITORING WELL
DEEP MONITORING WELL
BUILDING

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

TERRY ENVIRONMENTAL SERVICES
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FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	GCDHEC SITE ID #
2171.9A	02314
SCALE 1" = 60'	DATE March 2015

D H E C
PROMOTE PROTECT PROSPER

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

UST
APR 1 0 2015
PROGRAM

To: Ashleigh Thrash (SCDHEC Project Manager)
From: Tim Mettlen (Contractor Project Manager)
Contractor: Terry Environmental Services UST Contractor Certification Number: UCC-0223

Facility Name: Windsor Mart UST Permit #: 02314
Facility Address: 820 Chesterfield Highway
Responsible Party: Jackson Oil Company, Inc. Phone: 843-537-7080
RP Address: PO Box 968, Cheraw, South Carolina 29520
Property Owner (if different): n/a
Property Owner Address: n/a
Current Use of Property: Gas Station and Convenience Store (Corner Cupboard)

UST
12tech
DOCKETING

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☐ Groundwater Sampling
- ☑ Other Recovery well installation & AFVRs
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☐ BTEXNMDCA (8260B)
- ☐ Oxygenates (8260B)
- ☐ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Soil:

- ☐ BTEXN
- ☐ PAH
- ☐ 8 RCRA Metals
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

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

_____ Soil _____ Water Supply Wells _____ Air _____ Field Blank
_____ Monitoring Wells _____ Surface Water _____ Duplicate _____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: Three 4 inch recovery wells Estimated Footage: 90 feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Monitoring Well development method (consistent with SOP): pump and surge
Comments, if warranted:

UST Permit #: 02314 Facility Name: Windsor Mart

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: May 2015 Field Work Completion: June 2015
Report Submittal: July 2015 # 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: 5 Tons Purge Water: 55 Gallons
Drilling Fluids: 55 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.
Also complete 2 96 hour AFVR events.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
n/a Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory:
SCDHEC Certification Number:
Name of Laboratory Director:

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

n/a Other variations from ACQAP. Please describe below.

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

D H E C

PROMOTE PROTECT PROSPER

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 Agreement #:** 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**					
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 technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***					
AA. Standard		per foot	$15.00		$0.00
C1. Fractured Rock		per foot	$20.20		$0.00
7. A1. **Soil Leachability Model**		each	$60.00		$0.00
8. **Abandonment (per foot)***					
A1. 2" diameter or less		per foot	$3.10		$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50		$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00		$0.00
9. **Well Installation (per foot)***					
A1. Water Table (hand augered)		per foot	$10.60		$0.00
B1. Water Table (drill rig)		per foot	$38.00		$0.00
CC. Telescoping		per foot	$50.00		$0.00
DD. Rock Drilling		per foot	$58.00		$0.00
E1. 2" Rock Coring		per foot	$30.90		$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40		$0.00
HH. Recovery Well (4" diameter)	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 Product ***					
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					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	$122.00		$0.00
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		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**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	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)**					
		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*	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 system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$37,856.40		$4,542.77
TOTAL					$42,399.17

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

DHEC

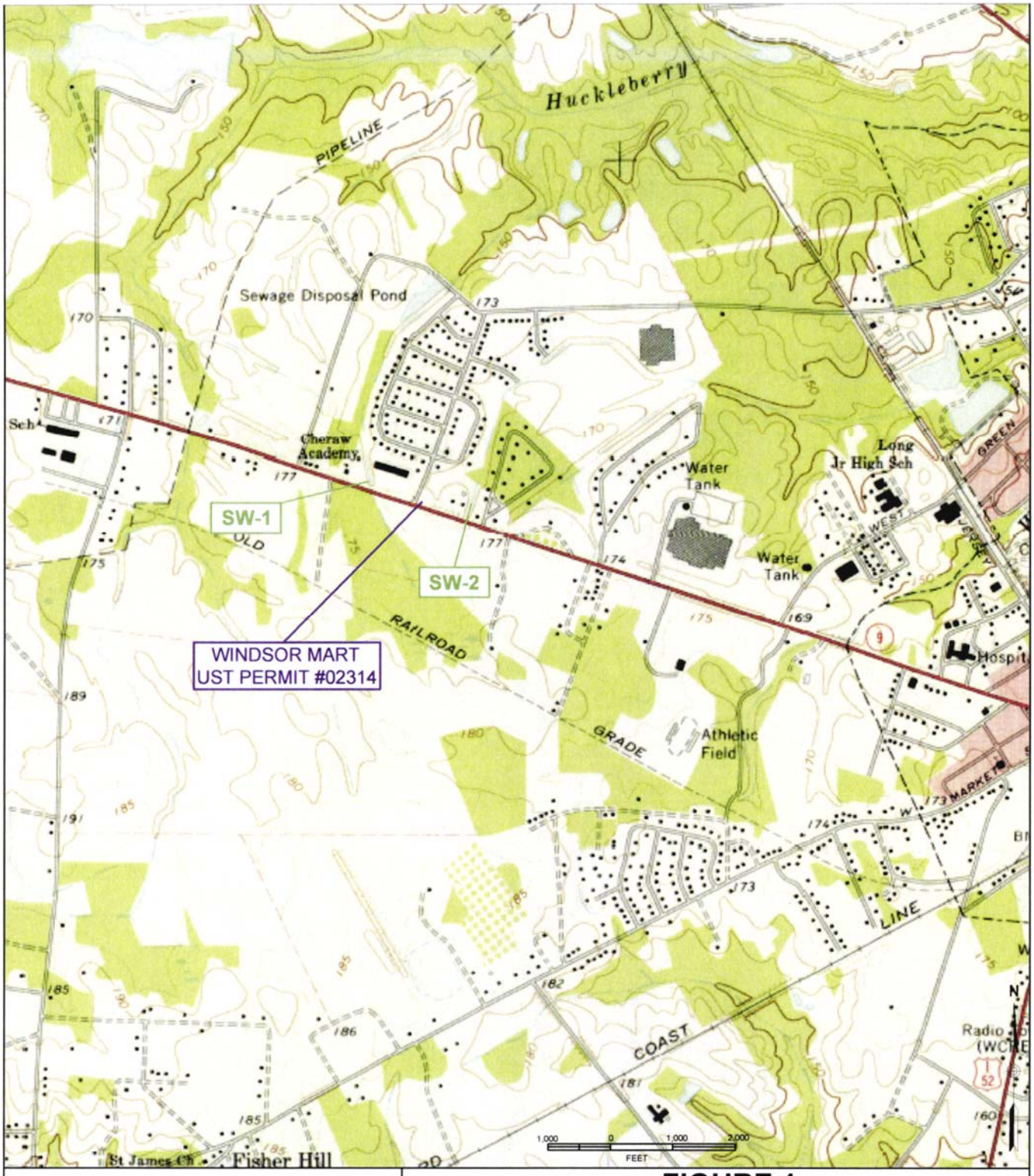


FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

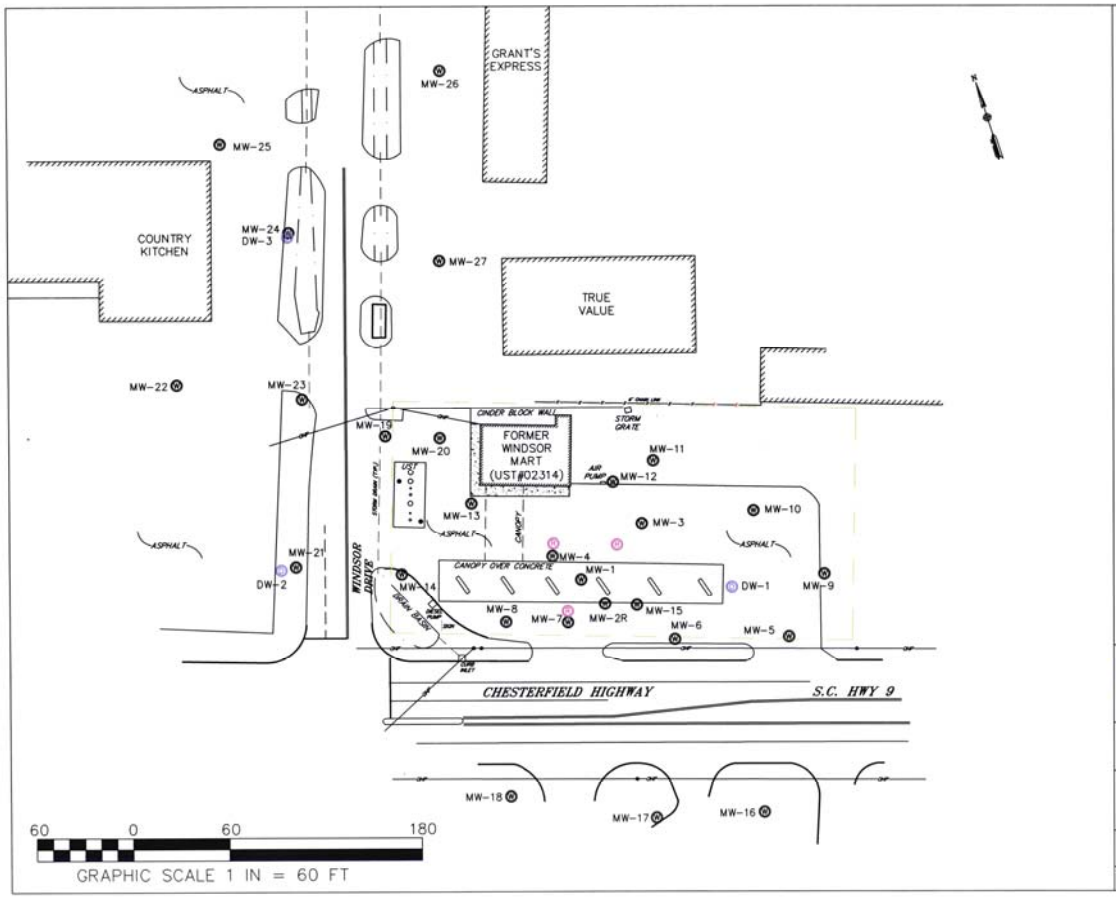
providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9B	Figure 1 Topo Map	

SCALE: As Shown

DATE: April 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- PROPOSED RECOVERY WELL
- BUILDING

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

TERRY ENVIRONMENTAL SERVICES
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FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9B	02314
SCALE 1" = 60'	DATE April 2015

D H E C

PROMOTE PROTECT PROSPER

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

APR 28 2015

UST 13th DOCKETING

Re: **Recovery Well Installation and AFVR directive**
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

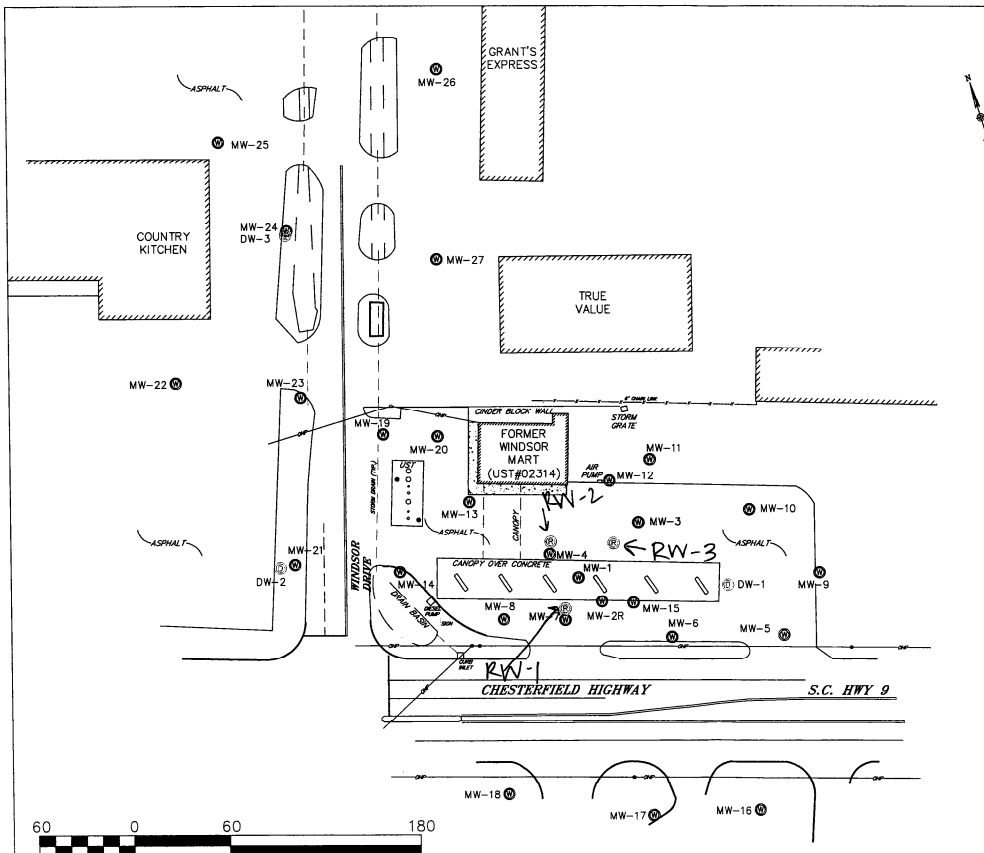
Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

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 Amount		32,715.37



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- PROPOSED RECOVERY WELL
- BUILDING

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TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9B	02314
SCALE 1" = 60'	DATE April 2015

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 8/10/2015

Permit Number 02314

Project Manager Ashleigh Thrash

Name of Contractor Terry Environmental

UST Certification Number

Docket Number 14 deen

Scanned

RW 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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

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
Certification:	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

Date:	July 27-29, 2015			**Average Depth to Groundwater:**	17-20 ft.
Site Name:	Windsor Mart			**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314			**Vacuum Contractor:**	TERRY Exploration Services, LLC
Well ID #:	MW-1, RW-1, 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						
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{pre}	PPM_{post}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_p	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm^3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
7/27/2015	13:30	22.0	752	3	129.7	39.3	5,832	1,005	83	0	30.14	6392.65	25570.60	4	12758.74	7.965E-04	1.44	1.67	0.27
7/27/2015	14:00	22.0	736	3	135.6	39.8	6,111	999	84	30	29.20	6698.47	26793.89	4	13369.11	8.346E-04	1.46	1.69	0.27
7/27/2015	14:30	22.0	658	3	138.4	39.4	6,732	1,061	84	60	25.99	7379.17	29516.68	4	14727.68	9.194E-04	1.43	1.66	0.27
7/27/2015	15:00	22.0	712	3	139.9	38.7	6,008	954	84	90	28.05	6585.57	26342.28	4	13143.78	8.206E-04	1.38	1.60	0.26
7/27/2015	15:30	22.0	732	3	143.2	39.0	5,972	960	84	120	28.68	6546.11	26184.44	4	13065.02	8.156E-04	1.40	1.62	0.26
7/27/2015	16:00	22.0	699	3	146.9	39.3	5,676	974	83	150	27.22	6221.65	24886.62	4	12417.46	7.752E-04	1.27	1.46	0.23
7/27/2015	16:30	22.0	707	3	151.2	38.6	5,437	987	82	180	27.34	5959.68	23838.71	4	11894.60	7.426E-04	1.22	1.41	0.23
7/27/2015	17:00	22.0	680	3	153.6	38.4	5,551	962	83	210	26.19	6084.64	24338.55	4	12144.00	7.581E-04	1.19	1.38	0.22
7/27/2015	17:30	22.0	763	3	153.8	38.3	4,632	866	81	240	29.38	5077.29	20309.16	4	10133.49	6.326E-04	1.12	1.29	0.21
7/27/2015	18:00	22.0	751	3	155.0	38.5	4,933	941	81	270	28.86	5407.23	21628.91	4	10791.99	6.737E-04	1.17	1.35	0.22
7/27/2015	18:30	22.0	787	3	156.9	38.8	4,816	920	81	300	30.15	5278.98	21115.92	4	10536.03	6.578E-04	1.19	1.38	0.22
7/27/2015	19:00	22.0	781	3	157.3	39.1	4,832	854	82	330	29.90	5296.52	21186.07	4	10571.03	6.599E-04	1.18	1.37	0.22
7/27/2015	19:30	22.0	777	3	159.6	39.1	4,461	762	83	360	29.64	4889.85	19559.41	4	9759.39	6.093E-04	1.08	1.25	0.20
7/27/2015	20:00	22.0	790	3	156.7	39.0	4,630	777	83	390	30.27	5075.10	20300.39	4	10129.11	6.324E-04	1.15	1.33	0.21
7/27/2015	20:30	22.0	763	3	156.8	39.3	4,555	764	83	420	29.23	4992.89	19971.55	4	9965.03	6.221E-04	1.09	1.26	0.20
7/27/2015	21:00	22.0	715	3	157.1	39.7	4,480	766	83	450	27.38	4910.68	19642.71	4	9800.95	6.119E-04	1.01	1.16	0.19
7/27/2015	21:30	22.0	726	3	156.8	39.6	4,027	684	83	480	27.82	4414.13	17656.52	4	8809.92	5.500E-04	0.92	1.06	0.17
7/27/2015	22:30	22.0	676	3	156.4	39.8	4,362	677	84	540	25.92	4781.33	19125.34	4	9542.80	5.958E-04	0.93	1.07	0.17
7/27/2015	23:30	22.0	728	3	155.9	39.9	4,411	670	85	600	27.93	4835.04	19340.18	4	9650.00	6.024E-04	1.01	1.17	0.19
7/28/2015	0:00	22.0	732	3	156.1	39.9	4,754	655	86	630	28.08	5211.02	20844.07	4	10400.39	6.493E-04	1.09	1.27	0.20
7/28/2015	8:00	22.0	753	3	156.3	38.6	3,619	641	82	1110	28.88	3966.91	15867.63	4	7917.33	4.943E-04	0.86	0.99	0.16
7/28/2015	9:00	22.0	746	3	157.2	38.4	3,715	633	83	1170	28.56	4072.14	16288.54	4	8127.35	5.074E-04	0.87	1.01	0.16
7/28/2015	10:00	22.0	811	3	158.0	38.0	3,520	625	82	1230	31.01	3858.39	15433.56	4	7700.75	4.808E-04	0.89	1.04	0.17
7/28/2015	11:00	22.0	754	3	158.3	37.6	3,110	623	80	1290	28.82	3408.98	13635.90	4	6803.79	4.248E-04	0.73	0.85	0.14
7/28/2015	12:00	22.0	728	3	158.8	37.7	3,264	630	81	1350	27.80	3577.78	14311.12	4	7140.70	4.458E-04	0.74	0.86	0.14
7/28/2015	13:00	22.0	747	3	158.9	37.7	3,003	584	81	1410	28.52	3291.69	13166.76	4	6569.70	4.101E-04	0.70	0.81	0.13
7/28/2015	13:30	22.0	749	3	159	37.8	3,005	580	81	1440	30.56	3223.73	12894.91	4	6434.06	4.017E-04	0.74	0.85	0.14
7/28/2015	15:30	22.0	800	3	158.7	37.4	2,941	560	81	1560	28.99	3357.46	13429.83	4	6700.97	4.183E-04	0.73	0.84	0.13
7/28/2015	17:30	22.0	759	3	158.8	37.5	3,063	522	83	1680	29.63	2885.02	11540.09	4	5758.06	3.595E-04	0.64	0.74	0.12
7/28/2015	19:30	22.0	776	3	158.9	37.5	2,632	486	82	1800	29.76	2756.78	11027.10	4	5502.10	3.435E-04	0.61	0.71	0.11
7/28/2015	21:30	22.0	778	3	157.9	37.9	2,515	467	81	1920	28.08	2561.66	10246.66	4	5112.69	3.192E-04	0.54	0.62	0.10
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	3.136E-04	0.55	0.63	0.10
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	0.08
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	0.08
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	0.08
7/29/2015	12:00	22.0	718	3	158.7	37.8	1,832	299	84	2790	26.47	1935.77	7743.09	4	3863.50	2.412E-04	0.38	0.44	0.07
7/29/2015	13:30	22.0	692	3	157.8	37.5	1,766	278	84	2790	28.56	4401.51	17606.04	4	8784.73	5.484E-04	0.94	1.09	0.17
Average		22.0	742	3.0	154.2	38.6	4015	689	83		28.56	4401.51	17606.04	4	8784.73	5.484E-04	0.94	1.09	0.17

Bws =	0.088	Bwsw:	0.06

Total Pounds of Carbon Recovered as Emissions: 43.70
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.
Site Name:	Windsor Mart			**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314			**Vacuum Contractor:**	TERRY Exploration Services, LLC
Well ID #:	MW-3, RW-3	**Blower Specification of the Vacuum Truck (CFM @ Hg):**		282 CFM @ 25" Hg	

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)												EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{pre}	PPM_{post}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{om}	C_c	PMR_o	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm^3)	(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	49.43	4156.54	16626.15	4	8295.81	5.179E-04	1.54	1.78	0.28
7/29/2015	20:00	20.0	1,268	3	158.2	36.3	3,711	698	81	360	49.24	4067.75	16271.01	4	8118.60	5.068E-04	1.50	1.73	0.28
7/29/2015	20:30	20.0	1,261	3	157.1	36.1	3,632	662	82	390	48.29	3981.16	15924.63	4	7945.77	4.961E-04	1.44	1.66	0.27
7/29/2015	21:00	20.0	1,272	3	157.3	36.5	3,559	647	82	420	48.70	3901.14	15604.56	4	7786.07	4.861E-04	1.42	1.64	0.26
7/29/2015	21:30	20.0	1,257	3	156.6	35.7	3,417	623	82	450	48.18	3745.49	14981.95	4	7475.42	4.667E-04	1.35	1.56	0.25
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	35.8	3,197	569	82	540	48.32	3504.34	14017.36	4	6994.12	4.366E-04	1.27	1.46	0.23
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		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 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ 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/K_3)

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 Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (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 Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (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 Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in 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 Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in 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

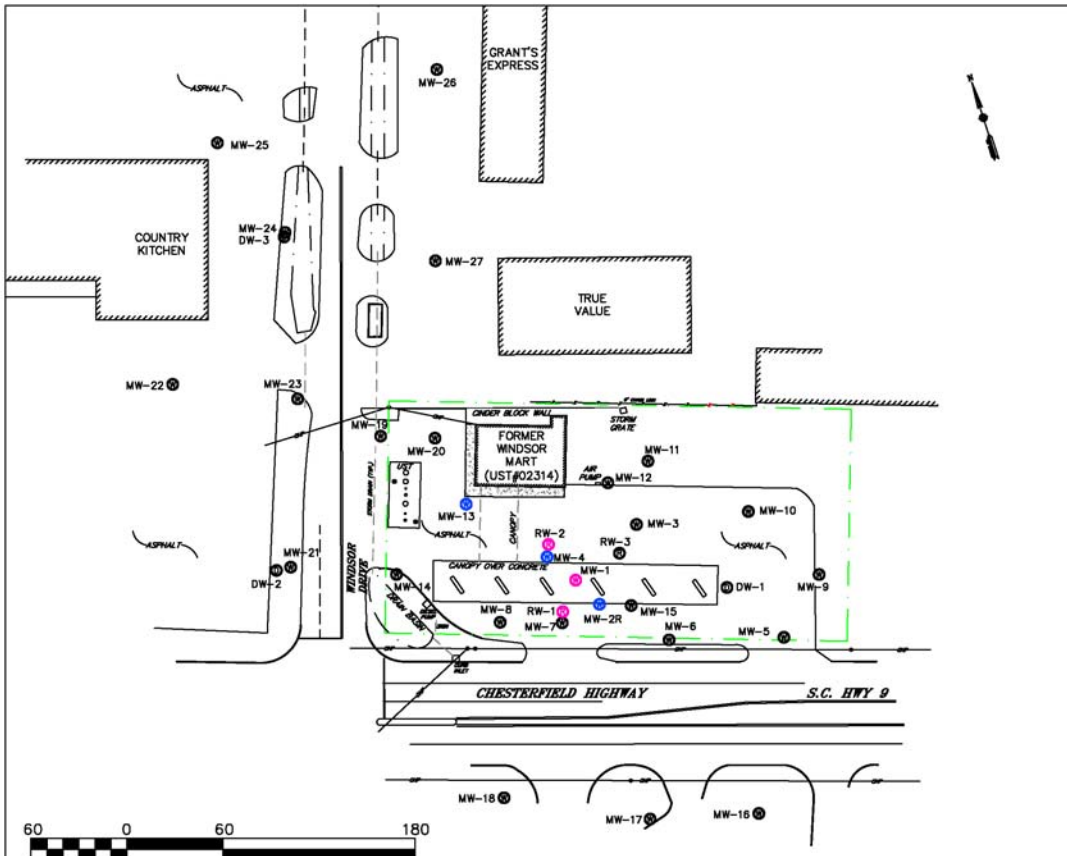
The disposal manifests for the recovery water generated during the July 27-29, 2015 and July 29-31, 2015 AFVR Events are included in Appendix G.

SECTION F-7
FREE PRODUCT THICKNESS TABLE (EVENT 1)
WINDSOR MART
CHERAW, SOUTH CAROLINA
SCDHEC UST PERMIT #02314
JULY 27-29, 2015

Well #	--	Depth to Product	Depth to Water	Product Thickness
RW-1	Initial	n/a	18.56	n/a
	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
	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



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

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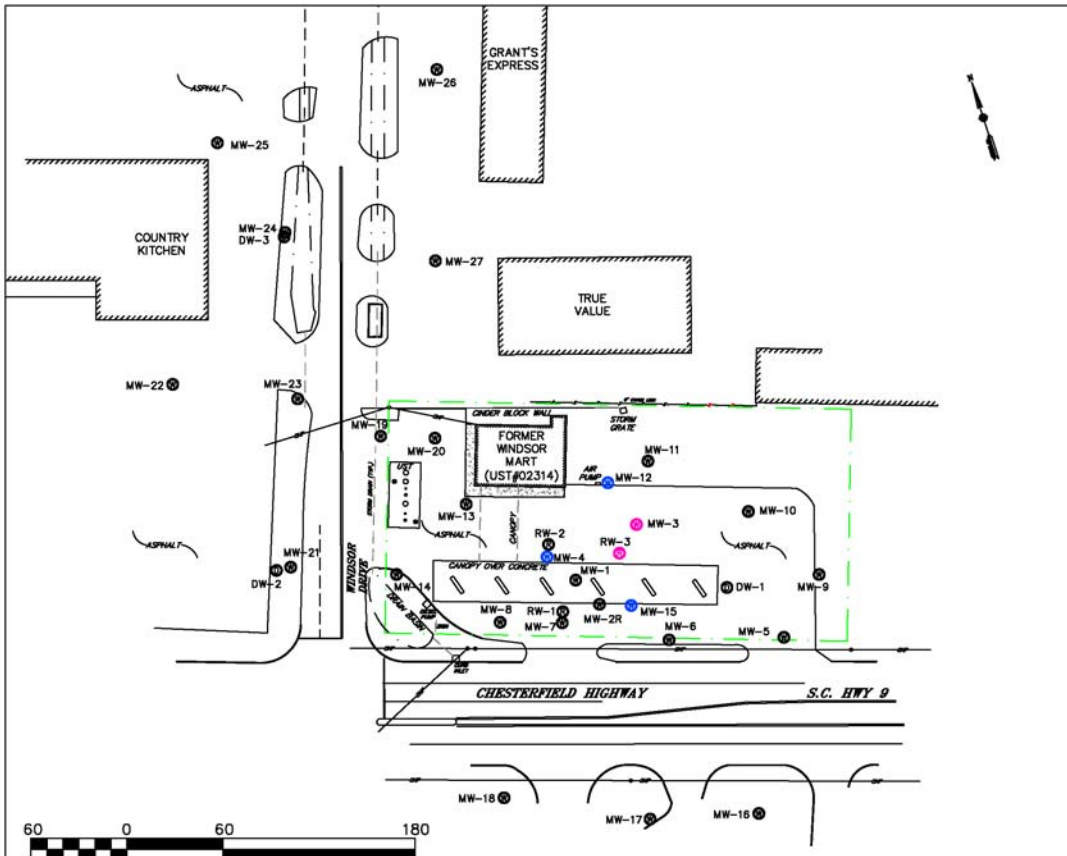
FIGURE F-8
AFVR MAP (EVENT 1)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9B	02314
SCALE 1" = 60'	DATE August 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE F-8
AFVR MAP (EVENT 2)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9B	02314
SCALE 1" = 60'	DATE August 2015

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

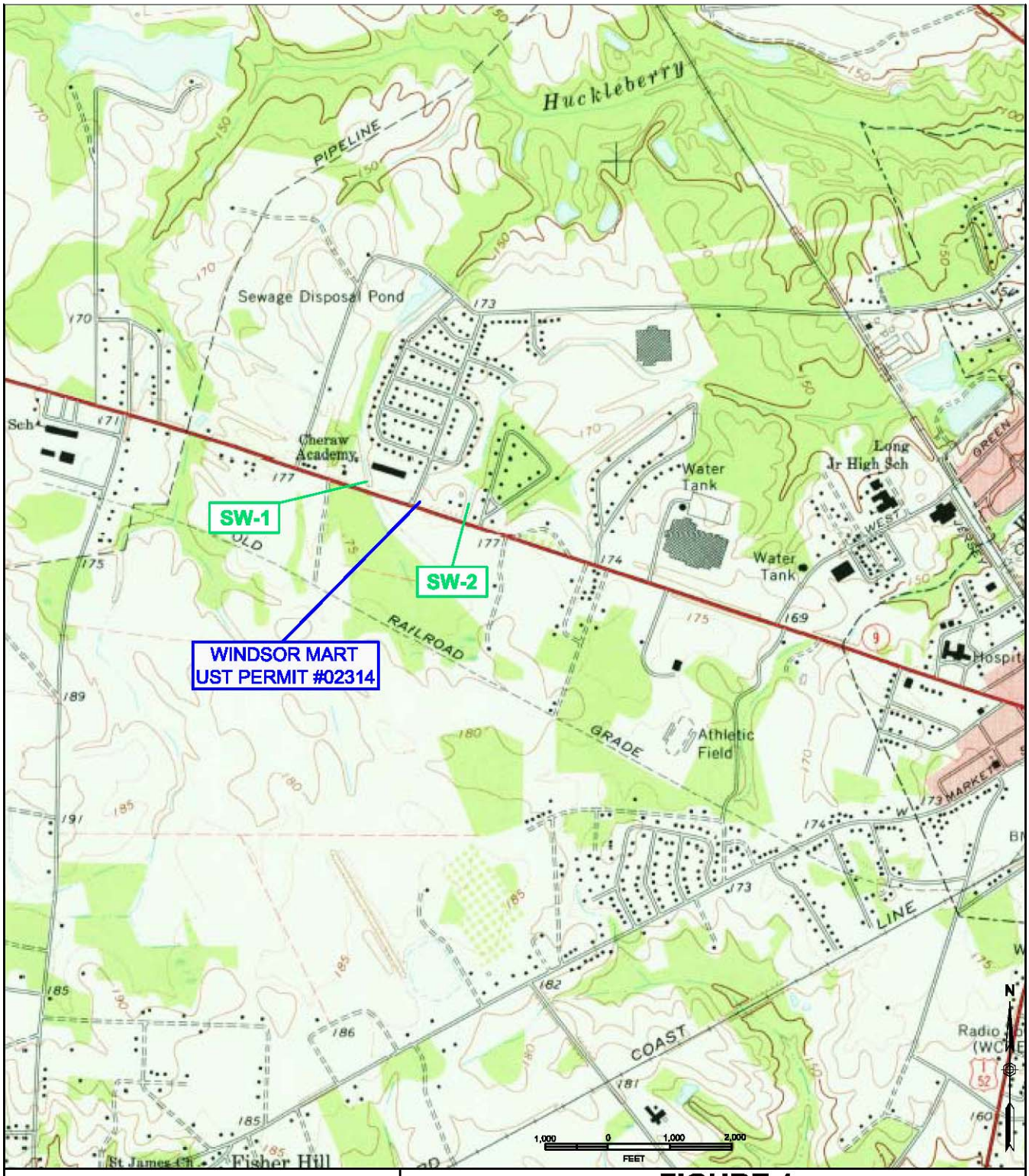


FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

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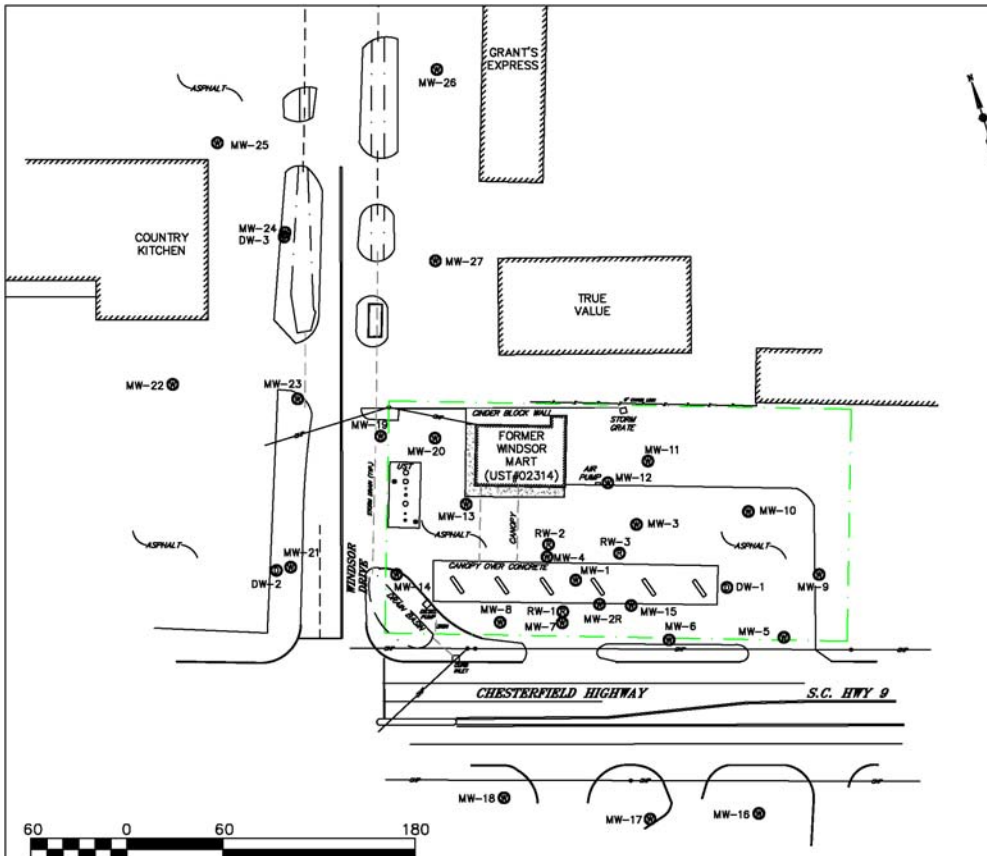
SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9B	Figure 1 Topo Map	

SCALE: As Shown

DATE: August 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9B	02314
SCALE 1" = 60'	DATE August 2015

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

TERRY ENVIRONMENTAL SERVICES
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WELL LOG

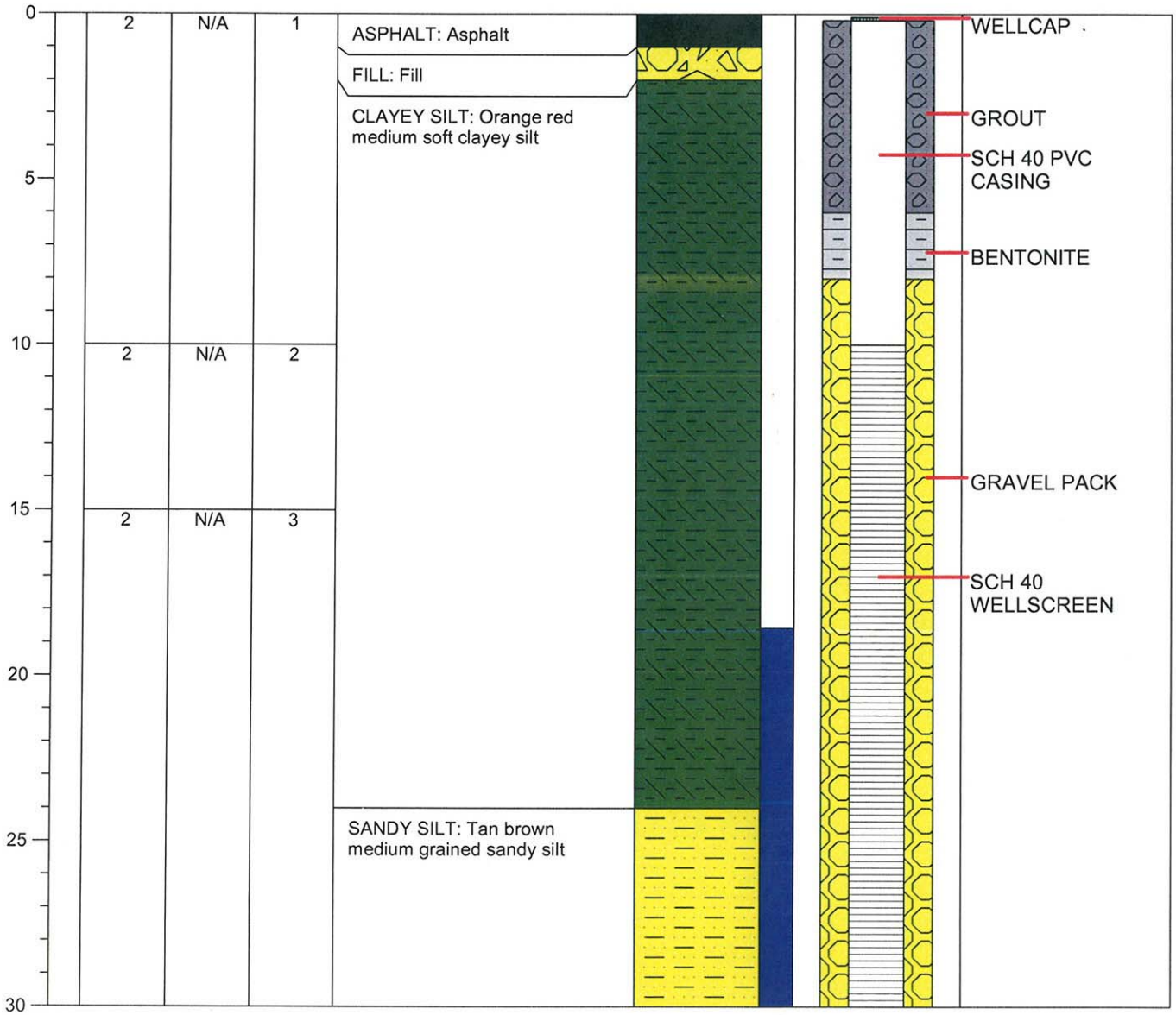
MONITORING WELL #: 02314-RW1
TERRY PROJECT #: 2171.9B
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: T. DARDEN
START DATE: 6/18/2015 FINISH DATE: 6/18/2015
DRILLING COMPANY: SAEDACCO
DRILLER: ROBERT MILLER (CERT#1472B)
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"
CASING DIAMETER: 4"
SCREEN DIAMETER: 4"
TOP OF CASING ELEVATION: 0
WATER LEVEL: 18.56 FT TOC
EASTING: -435.182
NORTHING: 188.2192
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS Filter Interval 8-30.0 FT BGS
Screen Interval 10.0-30.0 FT TOC Grout Interval 0-6 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0–10		2	N/A	1	ASPHALT: Asphalt FILL: Fill CLAYEY SILT: Orange red medium soft clayey silt		WELLCAP, GROUT, SCH 40 PVC CASING, BENTONITE
10–15		2	N/A	2	CLAYEY SILT: Orange red medium soft clayey silt		GRAVEL PACK
15–30		2	N/A	3	CLAYEY SILT: Orange red medium soft clayey silt SANDY SILT: Tan brown medium grained sandy silt		SCH 40 WELLSCREEN



Total Depth = 30.0 FT TOC

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WELL LOG

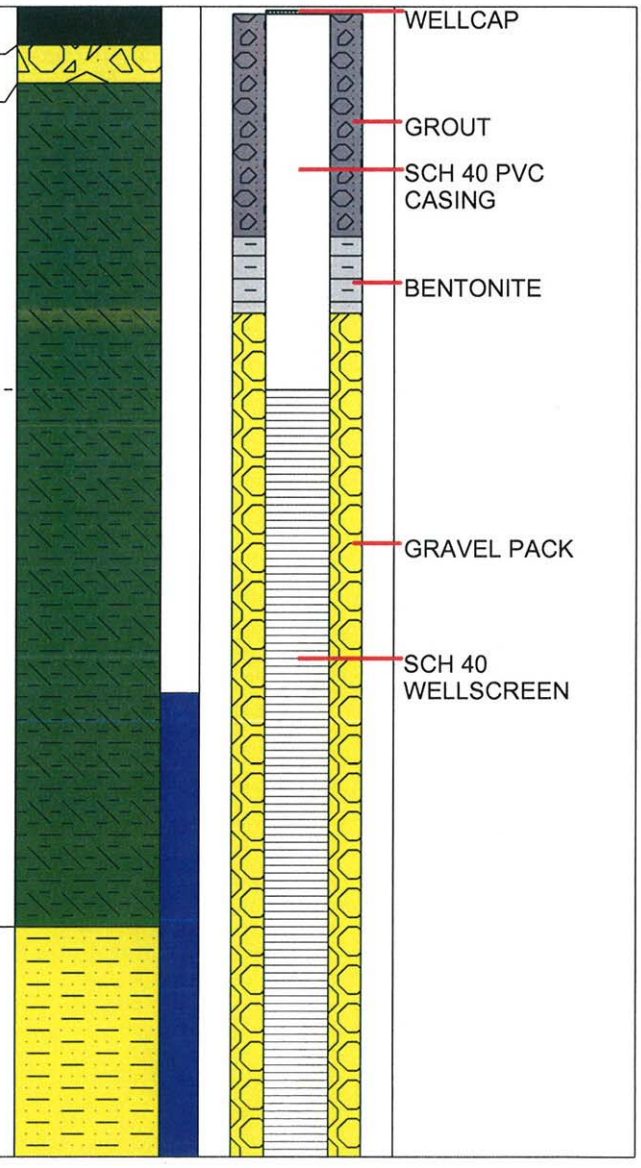
MONITORING WELL #: 02314-RW2
TERRY PROJECT #: 2171.9B
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: T. DARDEN
START DATE: 6/18/2015 FINISH DATE: 6/18/2015
DRILLING COMPANY: SAEDACCO
DRILLER: ROBERT MILLER (CERT#1472B)
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"
CASING DIAMETER: 4"
SCREEN DIAMETER: 4"
TOP OF CASING ELEVATION: 0
WATER LEVEL: 17.90 FT TOC
EASTING: -443.9661
NORTHING: 230.2553
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS Filter Interval 8-30.0 FT BGS
Screen Interval 10.0-30.0 FT TOC Grout Interval 0-6 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0		2	N/A	1	ASPHALT: Asphalt FILL: Fill CLAYEY SILT: Brown black medium soft clayey silt		WELLCAP GROUT SCH 40 PVC CASING BENTONITE
10		2	N/A	2	CLAYEY SILT: Orange red medium soft clayey silt		GRAVEL PACK SCH 40 WELLSCREEN
15		3	N/A	3			
20							
25					SANDY SILT: Tan brown medium grained sandy silt		
30							



Total Depth = 30.0 FT TOC

TERRY ENVIRONMENTAL SERVICES
Clients First Always™
WWW.TERRYENVIRONMENTAL.COM

WELL LOG

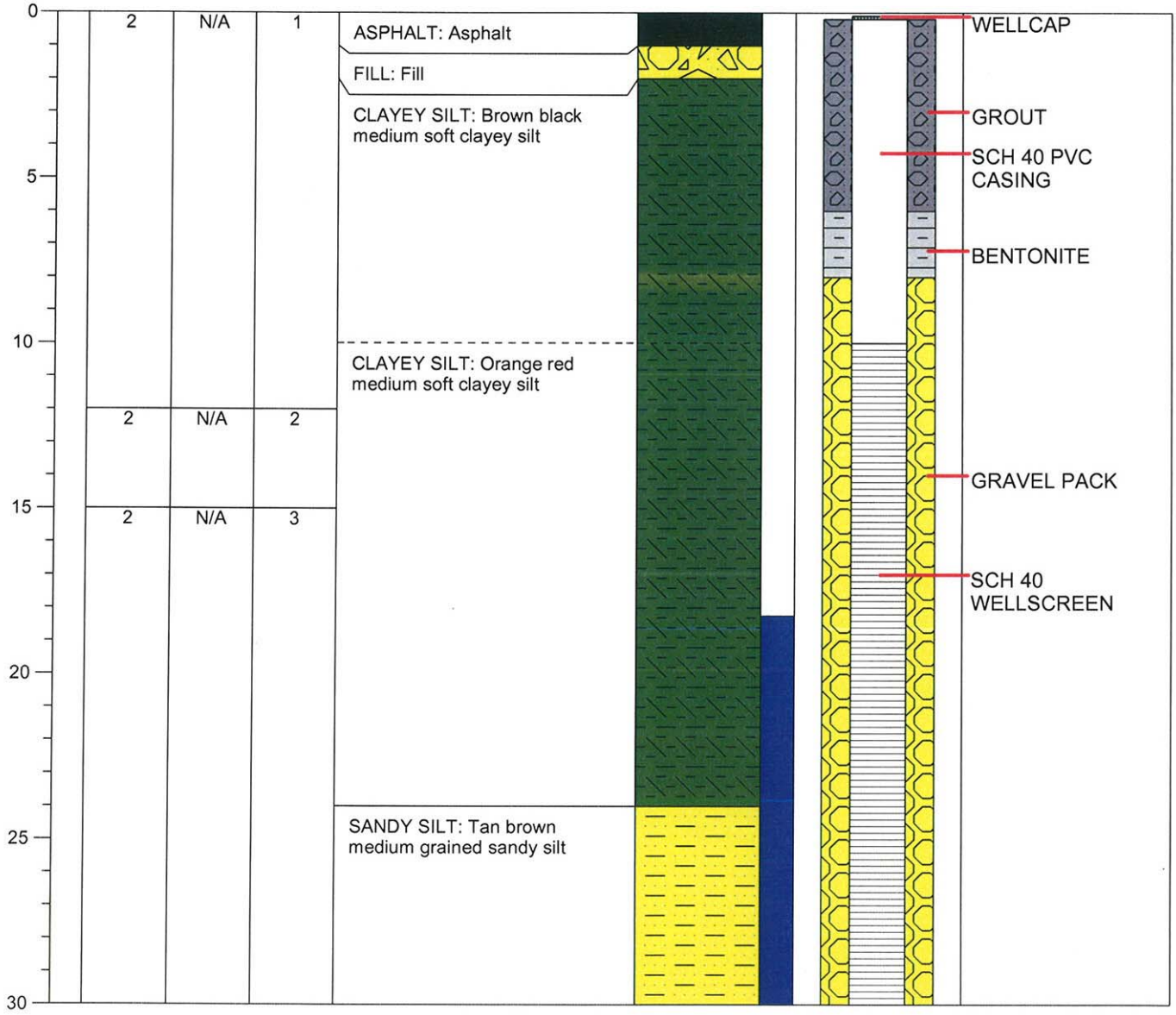
MONITORING WELL #: 02314-RW3
TERRY PROJECT #: 2171.9B
PROJECT LOCATION: CHERAW, SC

TERRY PROJECT: WINDSOR MART
SITE ID #: 02314
CLIENT: JACKSON OIL COMPANY, INC.
FIELD PERSONNEL: T. DARDEN
START DATE: 6/18/2015 FINISH DATE: 6/18/2015
DRILLING COMPANY: SAEDACCO
DRILLER: ROBERT MILLER (CERT#1472B)
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"
CASING DIAMETER: 4"
SCREEN DIAMETER: 4"
TOP OF CASING ELEVATION: 0
WATER LEVEL: 18.24 FT TOC
EASTING: -399.708
NORTHING: 224.3466
DEVELOPMENT: PUMP/SURGE

Casing Interval 0-10.0 FT TOC Bentonite Interval 6-8 FT BGS Filter Interval 8-30.0 FT BGS
Screen Interval 10.0-30.0 FT TOC Grout Interval 0-6 FT BGS Filter Material SAND

Depth Scale	Sample Zone	Odor (1=none, 2=slight, 3=strong)	PID/OVA	Moisture (1=dry, 2=moist, 3=wet)	Lithology	Water Level	Well Construction
0–10		2	N/A	1	ASPHALT: Asphalt FILL: Fill CLAYEY SILT: Brown black medium soft clayey silt		WELLCAP GROUT SCH 40 PVC CASING BENTONITE
10–15		2	N/A	2	CLAYEY SILT: Orange red medium soft clayey silt		GRAVEL PACK
15–25		2	N/A	3	CLAYEY SILT: Orange red medium soft clayey silt		SCH 40 WELLSCREEN
25–30					SANDY SILT: Tan brown medium grained sandy silt		



Total Depth = 30.0 FT TOC

10582

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: Windsor Mart (last) (first)
Address: 820 Chesterfield Hwy.
City: Cheraw State: S.C. Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Windsor Mart
Street Address: 820 Chesterfield Hwy.
City: Cheraw, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: RW-1

4. ABANDONMENT: ☐ Yes ☒ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Orange Silt	0	30'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: Two feet bentonite seal from 6' to 8'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☒ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☒ Test Well ☐ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30' ft Date Started: 6-18-15 Date Completed: 6-18-15

10. CASING: ☒ Threaded ☐ Welded
Diam.: 4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 0' ft. depth
_____ in. to _____ ft. depth
Height: Above/(Below) Surface
Weight _____ lb /ft.
Drive Shoe? ☐ Yes ☒ No

11. SCREEN:
Type: PVC Diam.: 4"
Slot/Gauge: .010 Length: 10'
Set Between: 10' ft and 30' ft. NOTE: MULTIPLE SCREENS
_____ ft. and _____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☒ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☒ No Bacterial Analysis ☐ Yes ☒ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 8' ft. to 30' ft.
Effective size 20/30 Uniformity Coefficient _____

16. WELL GROUTED? ☒ 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 ☒ 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) SAEDACCO 9088 Northfield Drive
Level: A (B) C D (circle one)
Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robert A Miller Well Driller Date: 6/22/2015

If D Level Driller, provide supervising driller's name:

DHEC 1903 (03/2004)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Windsor Mart (last) (first)
Address: 820 Chesterfield Hwy.
City: Cheraw State: S.C. Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Windsor Mart
Street Address: 820 Chesterfield Hwy.
City: Cheraw, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: RW-2

4. ABANDONMENT: ☐ Yes ☒ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Orange Silt	0	30'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: Two feet bentonite seal from 6' to 8'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☒ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☒ Test Well ☐ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30' ft. Date Started: 6-18-15 Date Completed: 6-18-15

10. CASING: ☒ Threaded ☐ Welded
Diam.: 4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 0' ft. depth
_____ in. to _____ ft. depth
Height: Above/(Below)
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☒ No

11. SCREEN:
Type: PVC Diam.: 4"
Slot/Gauge: .010 Length: 10'
Set Between: 10' ft. and 30' ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☒ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☒ No Bacterial Analysis ☐ Yes ☒ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 8' ft. to 30' ft.
Effective size 20/30 Uniformity Coefficient _____

16. WELL GROUTED? ☒ 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 ☒ 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) SAEDACCO 9088 Northfield Drive
Level: A (B) C D (circle one)
Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robert Miller Date: 6/22/2015
Well Driller

If D Level Driller, provide supervising driller's name:

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: Windsor Mart (last) (first)
Address: 820 Chesterfield Hwy.
City: Cheraw State: S.C. Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Chesterfield
Name: Windsor Mart
Street Address: 820 Chesterfield Hwy.
City: Cheraw, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: RW-3

4. ABANDONMENT: ☐ Yes ☒ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Orange Silt	0	30'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Two feet bentonite seal from 6' to 8'

6. TYPE: ☐ Mud Rotary ☐ Jetted ☒ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☒ Test Well ☐ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30' ft. Date Started: 6-18-15 Date Completed: 6-18-15

10. CASING: ☒ Threaded ☐ Welded
Diam.: 4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0 in. to 0' ft. depth
_____ in. to _____ ft. depth
Height: Above/(Below)
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☒ No

11. SCREEN:
Type: PVC Diam.: 4"
Slot/Gauge: .010 Length: 10'
Set Between: 10' ft. and 30' ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☒ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☒ No Bacterial Analysis ☐ Yes ☒ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No
Installed from 8' ft. to 30' ft.
Effective size 20/30 Uniformity Coefficient _____

16. WELL GROUTED? ☒ 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 ☒ 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) SAEDACCO 9088 Northfield Drive
Level: A (B) C D (circle one)
Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robert Miller Well Driller Date: 6/22/2015

If D Level Driller, provide supervising driller's name:

DHEC 1903 (03/2004)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

APPENDIX F

Aquifer Evaluation Forms
(Not Applicable)

APPENDIX G

Disposal Manifests

NON-HAZARDOUS WASTE MANIFEST

1 Page 1 of 1

2 Manifest Tracking No. D-06262780

3 Waste Profile No. 2780-1

5 Generator's Name and Mailing Address
Jackson Oil Co
PO Box 968
Cheraw, SC 29520

Generator's Site Address (if different than mailing address)
Windsor Mart
820 Chesterfield Highway
Cheraw, SC 29520

Generator's Phone

6 Transporter 1 Company Name
JBR Environmental Services (864) 583-2717

D SEPA ID Number
SCR000004358

7 Transporter 2 Company Name

E SEPA ID Number

F SEPA ID Number

8 Designated Facility Name and Site Address
JBR Environmental Services
210 Alice St.
Spartanburg, SC 29303 (864) 583-2717

Facility's Phone

BJ7724 SCR000004358 22,840

9 Waste Shipping Name and Description	10 Containers No.	Type	11 Total Quantity	12 Unit Wt./Vol.
1 Non-DOT /Non-RCRA Regulated Material (Soil Cuttings)	10	DM	7,000	P
2				
3				
4				

16240
6400 LBS
330 TON

13 Special Handling Instructions and Additional Information
1.) Profile # TE-614385
2.) Profile #
3.) Profile #
4.) Profile #

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

GENERATOR

Generator's Offeror's Printed/Typed Name

Signature

Month Day Year
6 24 15

15 International Shipments: ☐ Import to US ☐ Export from US
Port of entry/exit:
Date leaving US:

Transporter Signature (for exports only):

16 Transporter Acknowledgment of Receipt of Materials

TRANSPORTER INT'L

Transporter 1 Printed/Typed Name
Tim Chumley

Signature

Month Day Year
6 26 15

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17 Discrepancy

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

17b Alternate Facility (or Generator)

Manifest Reference Number:

D SEPA ID Number

DESIGNATED FACILITY

Facility's Phone

17c Signature of Alternate Facility (or Generator)

Month Day Year

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

Printed/Typed Name
Scott Eckl

Signature

Month Day Year
6 26 15

JBR Revision 4/13

TERRY Environmental Services, Inc.

Certificate of On-Site Treatment

In accordance with NPDES General Permit No. SCG830000, 100 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

TERRY Environmental Services
CLIENTS FIRST ALWAYS

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
820 Chesterfield Hwy
Cheraw, SC

Phone ( ) D# 2171.98

P O #: UST# 02314

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC, 29484

Phone (843) 873-8200

P O #: 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
Phone: (843) 797-8674
Fax: (843) 797-2126

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	5000

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: Tyler Waterhouse Signature: Date: 7/28/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown Signature: Date: 7/28/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Signature: Date 07/20/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

10863

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
820 Charleston Hwy Cheraw, SC

Phone ( )

P O #: P#2171.93
UST#02314

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC, 29484

Phone (843) 873-8200

P O #: 25

4. Transporter Company Name:
Goodsell Transport
511 Old Mt Holly RD
Goose Creek 29445

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

Phone: (843) 797-8674

Fax: (843) 797-2126

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	5000

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: Tyler Waterhouse

Signature:

Date: 7/29/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown

Signature:

Date: 7/29/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name:

Signature:

Date 07/29/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

11140

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (If applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Hamilton MarT
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #: 2171.9B
UST # 02314

3. Agent of Generator and Mailing Address: Terry Env
Phone ( )
P O #:

Summerville SC

4. Transporter Company Name: Goodsell Transport
511 old Mt Holly Rd
Phone ( )

Truck & Trailer License Number: Goose Creek SC 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	5360

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: Adam Knight | Signature: | Date: 7/28/15

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date:

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: David Ward | Signature: | Date 7-29-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

11824

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
820 Chesterfield Hwy
Cheraw, SC
Phone ( ) P# 2171.93
PO#: UST# 02314

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC
Phone (843) 873-8200
PO#: 25

4. Transporter Company Name:
Goodsell Transport
511 Old Mt. Holly RD
Goose Creek, SC
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
Phone: (843) 797-8674
Fax: (843) 797-2126

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	03/04	VT	GAL	5800

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: Tyler Waterhouse | Signature: | Date: 7/30/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Sharon Howard | Signature: Sharon Howard | Date: 7-30-15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Watlington | Signature: | Date: 07-30-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

10201

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (If applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
Cheraw, SC
Phone ( )
P O #: P#21719B
UST#02314

3. Agent of Generator and Mailing Address:
Terry Env.
Summerville, SC
Phone (843) 873-8200
P O #: 25

4. Transporter Company Name:
Goodsell Transport
571 Old Mt. Holly RD
Goose Creek SC
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
Phone: (843) 797-8674
Fax: (843) 797-2126

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VAC	GAL	5000

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: Tyler Waterhouse | Signature: | Date: 7/31/15

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Todd Brown | Signature: | Date: 7/31/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: | Signature: | Date 07/31/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

10204

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

Contractor Checklist – Windsor Mart

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X 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 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.

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

UST 15tech DOCKETING

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) 898-0607or 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 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 RECONNAISSANCE	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

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 11-18-15

Permit Number 02314

Project Manager Ashleigh Thrash

Name of Contractor TES

UST Certification Number

Docket Number 16Tech

Scanned

AT-VR/Gauging

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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

JASON A. TERRY, PG
President

KELLY K. CONE REGISTERED No. 2509 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

OCTOBER 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 (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	--

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 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.

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

Date:	October 19-23, 2015			**Average Depth to Groundwater:**	18-22 ft.
Site Name:	Windsor Mart			**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314			**Vacuum Contractor:**	TERRY Exploration Services, 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							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{pre}	PPM_{post}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm^3)	(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	158.2	21.9	2931	537	82	300	43.05	3212.77	12851.07	4	6412.19	4.003E-04	1.03	1.20	0.19
10/19/2015	19:00	21.0	1152	3	158.4	21.8	2766	387	86	330	44.03	3031.91	12127.62	4	6051.21	3.778E-04	1.00	1.15	0.18
10/19/2015	19:30	21.0	1036	3	158.8	22.1	2653	425	84	360	39.57	2908.04	11632.17	4	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	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	417	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	21.2	507	81	84	5760	44.99	555.74	2222.96	4	1109.17	6.925E-05	0.19	0.22	0.03
Average		20.6	1092.1	3.0	156.5	21.6	2161	358	84		41.86	2369.03	9476.11	4	4728.22	2.952E-04	0.74	0.86	0.14
Bws =	0.088	Bwsw:	0.06																

Total Pounds of Carbon Recovered as Emissions: 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:	October 26-30, 2015			**Average Depth to Groundwater:**	17-21 ft.
Site Name:	Windsor Mart			**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314			**Vacuum Contractor:**	TERRY Exploration Services, LLC
Well ID #:	MW-2R & RW-1	**Blower Specification of the Vacuum Truck (CFM @ Hg):**		282 CFM @ 25" Hg	

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)												EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{pre}	PPM_{post}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm^3)	(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	21.0	1017	3	111	28	1164	151	87	90	42.09	1275.90	5103.60	4	2546.50	1.590E-04	0.40	0.46	0.07
10/26/2015	14:30	21.0	1005	3	111	28	1151	150	87	120	41.60	1261.65	5046.60	4	2518.06	1.572E-04	0.39	0.45	0.07
10/26/2015	15:00	21.0	1031	3	112	29	1155	150	87	150	42.60	1266.03	5064.14	4	2526.81	1.577E-04	0.40	0.47	0.07
10/26/2015	15:30	21.0	1038	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	21.0	1063	3	109	27	1124	146	87	420	44.15	1232.05	4928.22	4	2458.99	1.535E-04	0.41	0.47	0.08
10/26/2015	20:00	21.0	1052	3	109	27	1118	145	87	450	43.69	1225.48	4901.91	4	2445.86	1.527E-04	0.40	0.46	0.07
10/26/2015	20:30	21.0	1064	3	110	28	1138	159	86	480	44.12	1247.40	4989.60	4	2489.62	1.554E-04	0.41	0.48	0.08
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	11:00	21.0	1108	3	115	22	1090	148	86	1350	45.54	1194.79	4779.14	4	2384.61	1.489E-04	0.41	0.47	0.08
10/27/2015	12:00	21.0	1094	3	113	25	1098	150	86	1410	45.12	1203.55	4814.22	4	2402.11	1.500E-04	0.41	0.47	0.08
10/27/2015	14:00	21.0	1082	3	115	25	1102	164	85	1530	44.47	1207.94	4831.76	4	2410.86	1.505E-04	0.40	0.46	0.07
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	21.0	1102	3	116	27	937	150	84	2850	45.21	1027.08	4108.31	4	2049.89	1.280E-04	0.35	0.40	0.06
10/28/2015	14:00	21.0	1119	3	117	28	925	139	85	2970	45.83	1013.92	4055.69	4	2023.63	1.263E-04	0.35	0.40	0.06
10/28/2015	16:00	21.0	1131	3	118	25	941	122	87	3090	46.24	1031.46	4125.85	4	2058.64	1.285E-04	0.36	0.41	0.07
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	1092	3	117	27	847	119	86	4290	44.73	928.43	3713.70	4	1852.99	1.157E-04	0.31	0.36	0.06
10/29/2015	14:00	21.0	1097	3	117	27	855	136	84	4410	44.93	937.19	3748.78	4	1870.49	1.168E-04	0.31	0.36	0.06
10/29/2015	16:00	21.0	1094	3	117	27	843	152	82	4530	44.81	924.04	3696.16	4	1844.24	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	1.160E-04	0.32	0.37	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	0.31	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		21.0	1080.3	3.0	113.8	27.2	1017	151	85		44.50	1114.42	4457.69	4	2224.22	1.389E-04	0.37	0.43	0.07
Bws =	0.088	Bwsw:	0.06																

Total Pounds of Carbon Recovered as Emissions: 35.59

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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ 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/K_3)

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 #	MW-4	Well #	RW-2
Elapsed Time	Stinger Depth (ft)*	Elapsed Time	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	18.50	52.5	18.50
54.5	18.50	54.5	18.50
56.5	18.50	56.5	18.50
58.5	18.50	58.5	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
72.5	18.00	72.5	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

*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

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

Well #	MW-1	Well #	MW-12	Well #	MW-13
Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in 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	1.0	6	0.20	6	0.15
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

Well #	MW-1	Well #	MW-8	Well #	MW-15
Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in 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	23.5	0.0	23.5	0.0
25.5	0.6	25.5	0.0	25.5	0.0
27.5	0.6	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
96	0.4	96	0.0	96	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

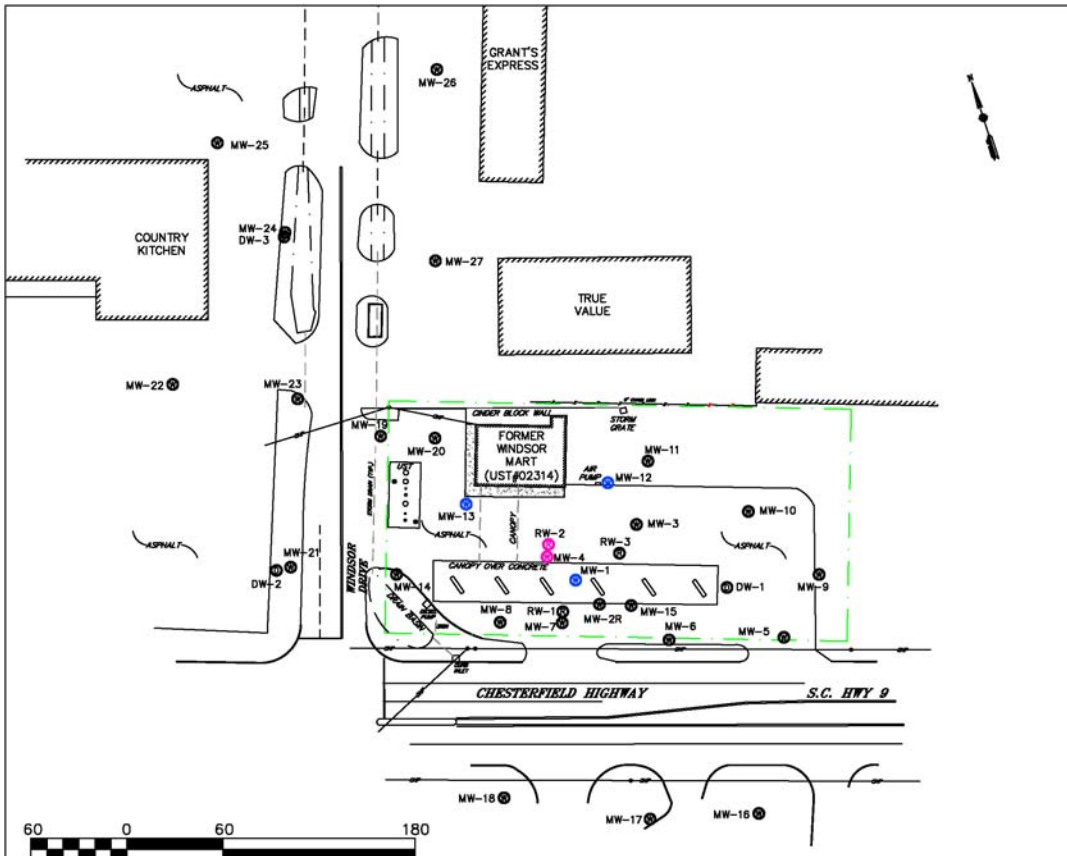
Well #	--	Depth to Product	Depth to Water	Product Thickness
MW-4	Initial	17.78	19.89	2.11
	Final	n/a	19.41	n/a
RW-2	Initial	17.67	19.31	1.64
	Final	n/a	18.45	n/a
MW-1	Initial	18.55	20.40	1.85
	Final	18.45	20.42	1.97
MW-12	Initial	n/a	17.65	n/a
	Final	n/a	17.82	n/a
MW-13	Initial	18.07	18.32	0.25
	Final	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 #	--	Depth to Product	Depth to Water	Product Thickness
MW-2R	Initial	18.63	19.46	0.83
	Final	n/a	18.95	n/a
RW-1	Initial	18.74	19.44	0.70
	Final	n/a	19.03	n/a
MW-1	Initial	18.31	21.37	3.06
	Final	18.73	19.28	0.55
MW-8	Initial	n/a	18.79	n/a
	Final	n/a	18.88	n/a
MW-15	Initial	n/a	18.74	n/a
	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



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

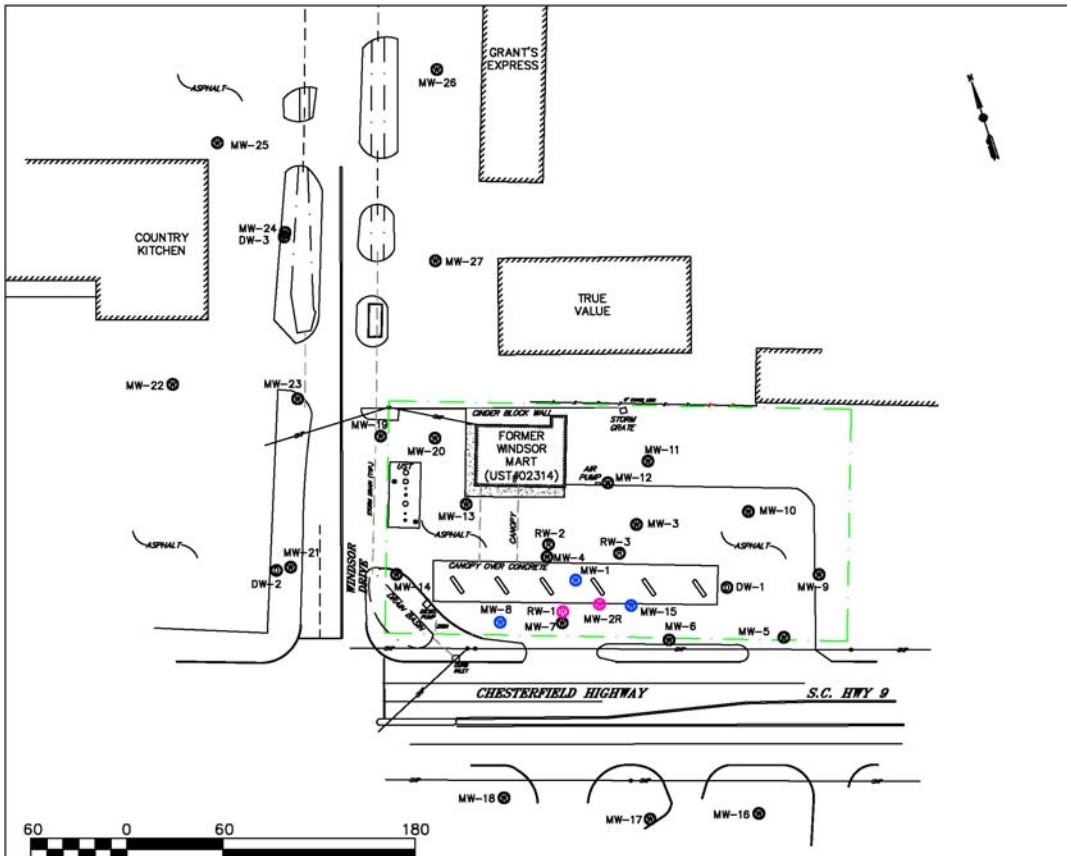
- RECOVERY WELL
- INFLUENCE WELL

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE F-8
AFVR MAP (EVENT 1)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9C	02314
SCALE 1" = 60'	DATE October 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE F-8
AFVR MAP (EVENT 2)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9C	02314
SCALE 1" = 60'	DATE October 2015

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

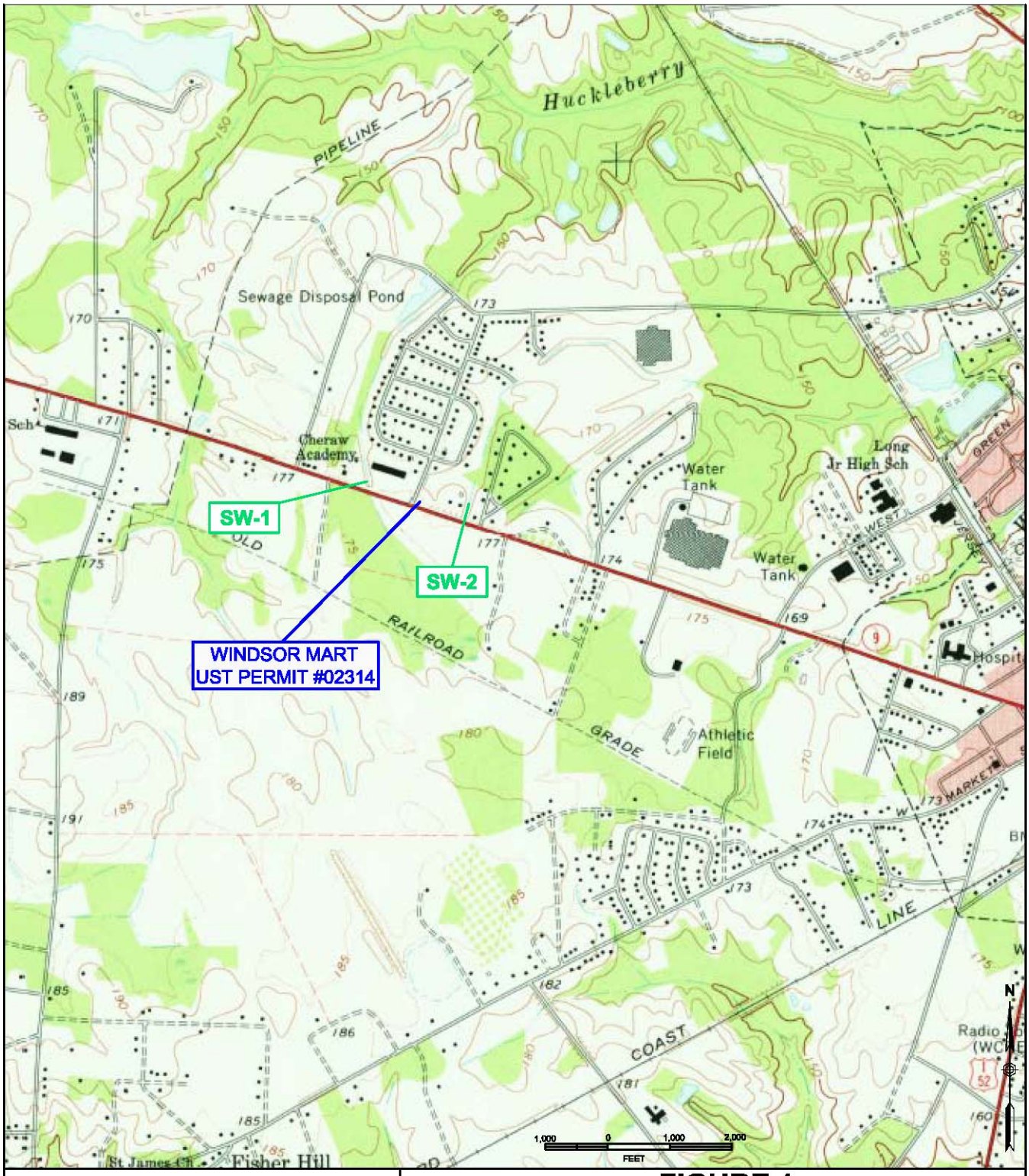


FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

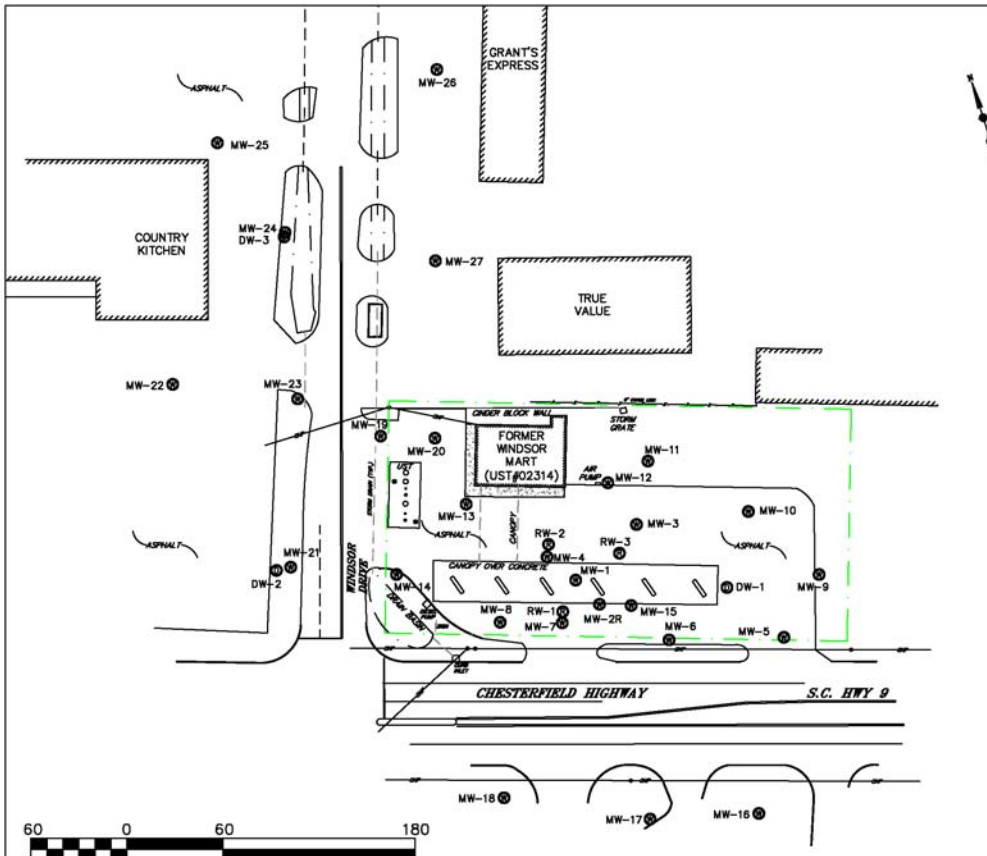
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9C	Figure 1 Topo Map	

SCALE: As Shown

DATE: October 2015



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

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FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9C	02314
SCALE 1" = 60'	DATE October 2015

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

Groundwater Sampling Log

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9C
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 /13 /2015
Field Personnel	MT
General Weather	SUNNY
Ambient Air Temperature	70

Monitoring Well Information

Well ID	02314 - MW-1
Testing Parameters	Gauge Well Only

Well Diameter	2	in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)											
Time (military)	1215										
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable? ONE bolt MISSING
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DIFFERENCE: 1.28'
DTP: 110.00'
DTW: 17.28'
TD: 20.0

COLOR: Med AMBER

Groundwater Sampling Log

TERRY Environmental Services
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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9C
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 /13 /2015
Field Personnel	MT
General Weather	SUNNY
Ambient Air Temperature	70°

Monitoring Well Information

Well ID	02314 - MW-2R
Testing Parameters	Gauge Well Only

Well Diameter	2	in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)											
Time (military)	1230										
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DTP 16.34'
DTW 16.48'
TD: 20.3'
Difference: 0.14'
Med. amber color

Groundwater Sampling Log

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9C
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 / 13 /2015
Field Personnel	NT
General Weather	Sunny
Ambient Air Temperature	70°

Monitoring Well Information

Well ID	02314 - MW-3	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)	i										
Time (military)	1315										
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable? Obstructed by water & mud
-well pad acceptable? dug out, Then checked with
-area safe? bailer
-other comments

Additional Comments

DTP -
DTW 13.83
TD: 20.0

Groundwater Sampling Log

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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9C
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 /13 /2015
Field Personnel	MT
General Weather	Sunny
Ambient Air Temperature	70°

Monitoring Well Information

Well ID	02314 - MW-4
Testing Parameters	Gauge Well Only

Well Diameter	2	in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)											
Time (military)	1330										
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable? NO BOLTS
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DTP: 15.24
DTW: 17.16
Difference: 1.92
TD: 20.0

Groundwater Sampling Log

TERRY Environmental Services
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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9C
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 /13 /2015
Field Personnel	MT
General Weather	SUNNY
Ambient Air Temperature	70.

Monitoring Well Information

Well ID	02314 - MW-13
Testing Parameters	Gauge Well Only

Well Diameter	2	in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)										
Time (military)	1345									
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments _____

Additional Comments

DTP: 15.25' Difference: 0.20'
DTW: 15.45'
TD: 20.3'
light sheen

Groundwater Sampling Log

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1-800-325-0605

Site Specific Information	
Terry Project ID	2171.9C
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 / 13 /2015
Field Personnel	MT
General Weather	sunny
Ambient Air Temperature	70°

Monitoring Well Information			
Well ID	02314 - MW-1		
Testing Parameters	Gauge Well Only		
Well Diameter	4	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Quality Assurance			
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)											
Time (military)	1240										
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information	
-overall condition acceptable?	
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments
DTP - 10.41
DTW - 10.60
Difference: 0.19
TD: 30.0
Color: med. Amber

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9C
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	11 /13 /2015
Field Personnel	MT
General Weather	sunny
Ambient Air Temperature	70°

Monitoring Well Information

Well ID	02314 - MW-2
Testing Parameters	Gauge Well Only

Well Diameter	4	in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)										
Time (military)	1400									
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DTP: 15.72'
DTW: 16.11'
Difference: 0.39'
TD: 30'

light amber

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
Cheraw, SC
Phone ( )
P O #:
P# 2171.9C
UST# 02314

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC
Phone (843) 873-8200
P O #: 25

4. Transporter Company Name:
Goodsell Transport
511 Old Mt. Holly RD
Goose Creek, SC
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water		VAC	GAL	5000

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: Tyler Waterhouse | Signature: [signature] | Date: 10/20/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: [signature] | Date: 10/20/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: PAUL Goodsell | Signature: [signature] | Date: 10-20-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

2171.9C 12922

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
Cheraw, SC
Phone ( ) P# 2171.9C
P O #: US~~II~~ 02314

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC
Phone (843) 873-8200
P O #: 25

4. Transporter Company Name:
Goodsell Transport
511 old mt. Holly RD
Goose Creek, SC
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VAC	GAL	5000

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: Tyler Waterhouse | Signature: | Date: 10/20/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: Todd Brown | Date: 10/20/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Paul Goodsell | Signature: Paul Goodsell | Date 10-20-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

2171.9C 12908

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Corner Cupboard
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Terry Env
Summerville SC
Phone ( )
P O #: 75

4. Transporter Company Name: Goodsell Services
511 old Mt Holly Rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	LT	Gal	5200

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: Dillon Slade | Signature: Dillon Slade | Date: 10/21/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Daniel Kinsman | Signature: | Date: 10/21/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Daniel Wade | Signature: Daniel Wade | Date 10-21-15

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

217.9C 12779

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

~~IW~~ Windsor Mart
Cheraw, SC

Phone ( )

P O #: P# 2171.9C
UST# 02314

3. Agent of Generator and Mailing Address:

Terry Environmental Services
Summerville, SC

Phone (843) 873-8200

P O #: 25

4. Transporter Company Name: Goodsell Transport
511 old mt. Holly RD
Goose Creek, SC

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water		VAC	GAL	3000

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: Tyler Waterhouse Signature: Date: 10/21/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown Signature: Todd Brown Date: 10/21/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Paul Goodsell Signature: Paul Goodsell Date 10-21-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

2171.9C 12909

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: ~~Chiraw, IN~~ Windsor Mart, Chiraw, SC | Phone ( ) ~~T#~~ 2171.9C | P O #: UST# 02314

3. Agent of Generator and Mailing Address: Terry Environmental Services, Summerville, SC | Phone (843) 873-8200 | P O #: 25

4. Transporter Company Name: Goodsell Transport, 511 Old Mt. Holly RD, Goose Creek, SC | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water		VAC	GAL	5000

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: Tyler Waterhouse | Signature: [signature] | Date: 10/22/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: [signature] | Date: 10/22/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Wathadie Dorn | Signature: [signature] | Date 10/22/15

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

2171.9C 12910

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor MART, Cheraw, SC | Phone ( ) | P O #: UST# 02314, P#2171.9C

3. Agent of Generator and Mailing Address: Terry Environmental Services, Summerville, SC | Phone (843) 873-8200 | P O #: ZS

4. Transporter Company Name: Goodsell Transport, 511 Old Mt. Holly RD, Goose Creek, SC | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water		VAC	GAL	5000

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: Tyler Waterhouse | Signature: [signature] | Date: 10/22/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: Todd Brown | Date: 10/22/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Walter Dyar | Signature: Walter Dyar | Date: 10/22/15

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

2171.9C 12921

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

Windsor Mart
Cheraw, SC

Phone ( )

P O #: P#2171.9C
UST# 02314

3. Agent of Generator and Mailing Address:

Terry Environmental Services
Summerville, SC

Phone (843) 873-8200

P O #: 25

4. Transporter Company Name: Goodsell Transport
511 Old Mt. Holly RD
Goose Creek, SC

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water		VAC	GAL	5000

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: Tyler Waterworth Signature: Date: 10/23/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown Signature: Date: 10/23/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Signature: Date 10/23/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

2171.9C 12911

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart 2171.9C | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Terry Environmental P.O. Box 25 Summerville, SC 29484 | Phone (843) 873-8200 | P O #: 2171.9C Windsor Mart

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	3000

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: Adam Knight | Signature: | Date: 10/26/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: Todd Brown | Date: 10-26-15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Nathalie Dan | Signature: Nathalie Dan | Date 10-26-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

2171.9C 13040

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart 2171
Cheraw SC

Phone ( )

P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental

Phone ( )

P O #:

4. Transporter Company Name:
Goodsell Transport

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	5000

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: Brian Spillane Signature: Date: 10/27/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown Signature: Todd Brown Date: 10-27-15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Signature: Date 10-27-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13021

2171.9C

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums **Number:**

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart 2171
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
Terry Enviromental
Phone ( )
P O #:

4. Transporter Company Name:
Goodsell Transport
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	5000

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: Brian Spillane | Signature: | Date: 10/27/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: Todd Brown | Date: 10-27-15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Witholin Watson | Signature: | Date 10-27-15

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

13020

2121-9C

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart 2171.9C | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Terry Environmental PO Box 25 Summerville, SC 29456 | Phone (843) 873-8200 | P O #:

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	5000

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: Adam Knight | Signature: | Date: 10/28/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: | Date: 10/28/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: | Signature: | Date 10/28/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12912

2171.9C

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Conner Cupboard
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Terry Env
Summerville SC
Phone ( )
P O #:

4. Transporter Company Name: Goodsell Services
511 old Mt Holly Rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	3300

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: Adam Knight | Signature: | Date: 10/28/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Daniel Kinsman | Signature: | Date: 10/28/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Daniel Kinsman | Signature: | Date 10/28/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

2/17/9C 13169

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums **Number:**

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart 2171.9C | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Terry Environmental, Po Box 25, Summerville, SC 29484 | Phone (843) 873-8200 | P O #:

4. Transporter Company Name: Goodsell Services, 511 old MT Holly Rd, Goose Creek SC 29445 | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	1	VT	Gal	5000

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: Adam Knight | Signature: | Date: 10/29/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Daniel Kinsey | Signature: | Date: 10/29/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: David Ward | Signature: David Ward | Date

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13022

2171.9C

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums **Number:**

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart 21719C | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Terry Environmental P.O Box 25 Summerville, SC 29484 | Phone (843) 873-8200 | P O #:

4. Transporter Company Name: Goodsel Services 511 old Mt Holly Rd Goose Creek SC 29445 | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	3300

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: Adam Knight | Signature: | Date: 10/29/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Daniel Kinsman | Signature: | Date: 10/29/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Daniel Kinsman | Signature: | Date 10/29/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

21719C 13023

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart, Cheraw SC | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Terry Env. Services | Phone ( ) | P O #: 25

4. Transporter Company Name: ~~US Water~~ Goodsell | Phone ( )

Truck & Trailer License Number: Goose Creek SC 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	5000

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: Dillon Shad | Signature: [signature] | Date: 10/30/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: [signature] | Signature: [signature] | Date: 10/30/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: David Knight | Signature: [signature] | Date 10/30/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

217.9C 13024

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: | Phone ( )
820 Chesterfield Hwy | P O #:
Cheraw SC

3. Agent of Generator and Mailing Address: | Phone ( )
Terry Fenn | P O #:
Summerville SC

4. Transporter Company Name: Goodsell Services | Phone ( )
511 old MT Holly Rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	2000

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: Daniel Kinsman | Signature: | Date: 10/31/15

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Daniel Kinsman | Signature: | Date: 10/31/15

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Daniel Kinsman | Signature: | Date 10/31/15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

2171.9C 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

Contractor Checklist – Windsor Mart

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		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X 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 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) - 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.

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

UST
DOCKETING

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

DEC 4 2015

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) 898-0607or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

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	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	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
		G	AFVR EQUIPMENT MOB	1.0000	391 50	391.50
				Total Amount		65,589 16

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 3-3-16

Permit Number 02314

Project Manager Ashleigh Thrash

Name of Contractor TES

UST Certification Number _____

Docket Number 18460

Scanned _____

AFVR / Gaugings

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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

JASON A. TERRY, PG
President

KELLY K. CONE REGISTERED No. 2509 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

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	--

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 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

Date:	February 1-5, 2016	**Average Depth to Groundwater:**	13-16 ft.
Site Name:	Windsor Mart	**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314	**Vacuum Contractor:**	TERRY Exploration Services, LLC
Well ID #:	MW-1/MW-2R/RW-1	**Blower Specification of the Vacuum Truck (CFM @ Hg):**	282 CFM @ 25" Hg

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)												EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{wet}	PPM_{dry}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{voc}	C_c	PMR_L	PMR_L	PMR_L
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
2/1/2016	13:30	18.0	984	3	97.3	20.1	98.3	17.3	82	0	41.73	107.75	431.00	4	215.05	1.343E-05	0.03	0.04	0.01
2/1/2016	14:00	19.0	1011	3	99.2	30.7	99.7	17.7	82	30	42.73	109.28	437.14	4	218.11	1.362E-05	0.03	0.04	0.01
2/1/2016	14:30	20.0	1019	3	103.7	31.8	105.2	20.4	81	60	42.72	115.31	461.25	4	230.15	1.437E-05	0.04	0.04	0.01
2/1/2016	15:00	21.0	1023	3	122.4	32.4	125.3	21.2	83	90	41.51	137.35	549.38	4	274.12	1.711E-05	0.04	0.05	0.01
2/1/2016	15:30	22.0	1027	3	136.3	32.9	146.0	25.6	82	120	40.70	160.04	640.14	4	319.41	1.994E-05	0.05	0.06	0.01
2/1/2016	16:00	22.0	1029	3	139.7	33.5	152.3	29.4	81	150	40.55	166.94	667.76	4	333.19	2.080E-05	0.05	0.06	0.01
2/1/2016	16:30	22.0	1031	3	142.3	34.7	165.3	32.1	81	180	40.45	181.19	724.76	4	361.63	2.258E-05	0.05	0.06	0.01
2/1/2016	17:00	22.0	1035	3	146.5	36.5	174.2	30.5	82	210	40.33	190.95	763.79	4	381.10	2.379E-05	0.06	0.07	0.01
2/1/2016	17:30	22.0	1036	3	150.7	35.4	182.8	31.7	83	240	40.09	200.37	801.49	4	399.91	2.497E-05	0.06	0.07	0.01
2/1/2016	18:00	22.0	1037	3	150.9	35.0	195.4	32.4	83	270	40.12	214.18	856.74	4	427.48	2.669E-05	0.06	0.07	0.01
2/1/2016	18:30	22.0	1041	3	151.7	34.8	190.7	32.8	83	300	40.22	209.03	836.13	4	417.20	2.605E-05	0.06	0.07	0.01
2/1/2016	19:00	22.0	1037	3	151.6	34.7	200.3	32.9	84	330	40.07	219.56	878.22	4	438.20	2.736E-05	0.07	0.08	0.01
2/1/2016	19:30	22.0	1039	3	153.6	34.2	206.4	31.6	85	360	40.02	226.24	904.97	4	451.54	2.819E-05	0.07	0.08	0.01
2/1/2016	20:00	22.0	1042	3	155.2	34.1	212.5	32.5	85	390	40.03	232.93	931.71	4	464.89	2.902E-05	0.07	0.08	0.01
2/1/2016	20:30	22.0	1050	3	159.4	34.7	199.8	30.7	85	420	40.06	219.01	876.03	4	437.11	2.729E-05	0.07	0.08	0.01
2/1/2016	21:00	22.0	1048	3	158.0	33.9	196.4	31.5	84	450	40.08	215.28	861.12	4	429.67	2.682E-05	0.06	0.07	0.01
2/1/2016	21:30	22.0	1046	3	158.2	33.6	205.7	31.2	85	480	39.99	225.47	901.90	4	450.01	2.809E-05	0.07	0.08	0.01
2/1/2016	22:30	22.0	1055	3	158.7	33.2	211.4	32.6	85	540	40.30	231.72	926.89	4	462.48	2.887E-05	0.07	0.08	0.01
2/1/2016	23:30	22.0	1054	3	160.1	33.0	204.6	31.5	85	600	40.17	224.27	897.08	4	447.61	2.794E-05	0.07	0.08	0.01
2/2/2016	0:00	22.0	1058	3	159.4	34.0	215.9	32.0	85	630	40.37	236.66	946.62	4	472.33	2.949E-05	0.07	0.08	0.01
2/2/2016	8:00	22.0	1059	3	159.7	35.1	216.3	31.7	85	1110	40.39	237.09	948.37	4	473.20	2.954E-05	0.07	0.08	0.01
2/2/2016	9:00	22.0	1062	3	161.3	34.3	217.9	32.1	85	1170	40.40	238.85	955.39	4	476.70	2.976E-05	0.07	0.08	0.01
2/2/2016	10:00	22.0	1067	3	162.3	33.7	215.3	31.4	85	1230	40.52	236.00	943.99	4	471.01	2.941E-05	0.07	0.08	0.01
2/2/2016	11:00	22.0	1065	3	161.9	34.2	218.3	30.3	86	1290	40.47	239.29	957.14	4	477.58	2.982E-05	0.07	0.08	0.01
2/2/2016	12:00	22.0	1063	3	161.3	35.8	218.1	31.2	86	1350	40.43	239.07	956.27	4	477.14	2.979E-05	0.07	0.08	0.01
2/2/2016	13:00	22.0	1061	3	162.7	35.9	218.4	32.4	85	1410	40.27	239.40	957.58	4	477.80	2.983E-05	0.07	0.08	0.01
2/2/2016	15:00	22.0	1059	3	161.3	34.4	219.7	31.9	85	1530	40.28	240.82	963.28	4	480.64	3.001E-05	0.07	0.08	0.01
2/2/2016	17:00	22.0	1058	3	162.3	35.7	219.5	31.0	86	1650	40.18	240.60	962.41	4	480.20	2.998E-05	0.07	0.08	0.01
2/2/2016	19:00	22.0	1055	3	163.4	35.9	221.3	31.7	86	1770	40.00	242.57	970.30	4	484.14	3.022E-05	0.07	0.08	0.01
2/2/2016	21:00	22.0	1048	3	164.6	36.3	222.4	32.4	85	1890	39.65	243.78	975.12	4	486.55	3.038E-05	0.07	0.08	0.01
2/2/2016	23:00	22.0	1049	3	169.8	36.2	221.7	32.3	85	2010	39.36	243.01	972.05	4	485.02	3.028E-05	0.07	0.08	0.01
2/3/2016	0:00	22.0	1051	3	165.3	35.9	220.5	32.7	85	2070	39.72	241.70	966.79	4	482.39	3.012E-05	0.07	0.08	0.01
2/3/2016	8:00	22.0	1056	3	165.4	35.7	219.3	31.9	85	2550	39.90	240.38	961.53	4	479.77	2.995E-05	0.07	0.08	0.01
2/3/2016	10:00	22.0	1058	3	164.8	36.2	219.8	33.4	85	2670	40.02	240.93	963.72	4	480.86	3.002E-05	0.07	0.08	0.01
2/3/2016	12:00	22.0	1061	3	163.2	36.0	220.4	33.2	85	2790	40.24	241.59	966.35	4	482.17	3.010E-05	0.07	0.08	0.01
2/3/2016	14:00	22.0	1042	3	164.3	35.8	221.4	31.8	86	2910	39.45	242.68	970.74	4	484.36	3.024E-05	0.07	0.08	0.01
2/3/2016	16:00	22.0	1056	3	165.2	35.3	223.5	31.9	86	3030	39.92	244.99	979.94	4	488.95	3.053E-05	0.07	0.08	0.01
2/3/2016	18:00	22.0	1057	3	167.3	36.7	220.7	30.2	86	3150	39.82	241.92	967.67	4	482.83	3.014E-05	0.07	0.08	0.01
2/3/2016	20:00	22.0	1062	3	168.4	36.0	243.7	32.8	87	3270	39.94	267.13	1068.51	4	533.15	3.328E-05	0.08	0.09	0.01
2/3/2016	22:00	22.0	1061	3	167.3	36.2	236.2	31.4	87	3390	39.97	258.91	1035.63	4	516.74	3.226E-05	0.08	0.09	0.01
2/4/2016	0:00	22.0	1067	3	161.2	36.1	234.2	29.8	87	3510	40.59	256.71	1026.86	4	512.36	3.199E-05	0.08	0.09	0.01
2/4/2016	8:00	22.0	1059	3	159.3	36.5	231.4	31.5	86	3990	40.41	253.65	1014.58	4	506.24	3.160E-05	0.08	0.09	0.01
2/4/2016	10:00	22.0	1055	3	158.7	36.6	233.1	32.3	86	4110	40.30	255.51	1022.03	4	509.96	3.184E-05	0.08	0.09	0.01
2/4/2016	12:00	22.0	1058	3	162.4	37.3	241.7	36.2	85	4230	40.17	264.94	1059.74	4	528.77	3.301E-05	0.08	0.09	0.01
2/4/2016	14:00	22.0	1059	3	163.0	36.9	248.8	38.5	85	4350	40.17	272.72	1090.87	4	544.30	3.398E-05	0.08	0.09	0.02
2/4/2016	16:00	22.0	1062	3	163.1	37.2	249.9	34.8	86	4470	40.28	273.92	1095.70	4	546.71	3.413E-05	0.08	0.10	0.02
2/4/2016	18:00	22.0	1060	3	163.8	37.3	252.7	35.3	86	4590	40.16	276.99	1107.97	4	552.84	3.451E-05	0.08	0.10	0.02
2/4/2016	20:00	22.0	1052	3	162.3	39.2	251.4	36.1	86	4710	39.95	275.57	1102.27	4	549.99	3.434E-05	0.08	0.10	0.02
2/4/2016	22:00	22.0	1048	3	161.8	38.7	248.3	38.0	85	4830	39.83	272.17	1088.68	4	543.21	3.391E-05	0.08	0.09	0.02
2/5/2016	0:00	22.0	1052	3	159.2	37.4	247.2	36.4	85	4950	40.15	270.96	1083.86	4	540.80	3.376E-05	0.08	0.09	0.02
2/5/2016	8:00	22.0	1055	3	158.3	38.3	243.8	35.2	86	5430	40.32	267.24	1068.95	4	533.36	3.330E-05	0.08	0.09	0.01
2/5/2016	10:00	22.0	1051	3	155.3	39.2	251.2	38.2	85	5550	40.37	275.35	1101.39	4	549.55	3.431E-05	0.08	0.10	0.02
2/5/2016	12:00	22.0	1054	3	151.2	39.3	249.8	38.0	85	5670	40.75	273.81	1095.26	4	546.49	3.412E-05	0.08	0.10	0.02
2/5/2016	13:30	22.0	1052	3	150.7	40.4	244.7	37.1	85	5760	40.71	268.22	1072.90	4	535.33	3.342E-05	0.08	0.09	0.02
Average		21.8	1048.8	3.0	154.9	35.3	210	32	85		40.31	230.41	921.63	4	459.86	2.871E-05	0.07	0.08	0.01
Bws =	0.068	Bwsw	0.06																

Total Pounds of Carbon Recovered as Emissions: 6.67
Total Pounds of Gasoline Vapor Recovered as Emissions: 7.71
Total Gallons of Gasoline Recovered as Emissions: 1.23
(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:	February 8-12, 2016			**Average Depth to Groundwater:**	11-15 ft.
Site Name:	Windsor Mart			**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314			**Vacuum Contractor:**	TERRY Exploration Services, 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							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{inf}	PPM_{eff}	Reduction	Elapsed time	Flow	PPM_V	PPM_v	K	C_{inf}	C_r	PMR_i	PMR_r	PMR_t
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
2/8/2016	13:00	22.0	847	3	113.0	29.7	387	69	82	0	34.93	424.20	1696.81	4	846.64	5.286E-05	0.11	0.13	0.02
2/8/2016	13:30	22.0	898	3	115.0	29.9	392	74	81	30	36.91	429.68	1718.74	4	857.58	5.354E-05	0.12	0.14	0.02
2/8/2016	14:00	22.0	904	3	117.0	29.8	395	78	80	60	37.03	432.97	1731.89	4	864.15	5.395E-05	0.12	0.14	0.02
2/8/2016	14:30	22.0	1,007	3	124.0	29.8	389	78	80	90	40.75	426.40	1705.58	4	851.02	5.313E-05	0.13	0.15	0.02
2/8/2016	15:00	22.0	1,003	3	129.0	29.4	380	65	83	120	40.24	416.53	1666.12	4	831.33	5.190E-05	0.13	0.14	0.02
2/8/2016	15:30	22.0	1,024	3	130.0	29.5	414	75	82	150	41.02	453.80	1815.20	4	905.71	5.654E-05	0.14	0.16	0.03
2/8/2016	16:00	22.0	1,049	3	134.0	29.5	482	92	81	180	41.74	528.34	2113.35	4	1054.48	6.583E-05	0.16	0.19	0.03
2/8/2016	16:30	22.0	1,098	3	134.0	29.2	497	85	83	210	43.69	544.78	2179.11	4	1087.29	6.788E-05	0.18	0.21	0.03
2/8/2016	17:00	22.0	1,082	3	134.0	29.7	513	93	82	240	43.05	562.32	2249.27	4	1122.30	7.006E-05	0.18	0.21	0.03
2/8/2016	17:30	22.0	1,079	3	134.0	29.6	556	107	81	270	42.93	609.45	2437.80	4	1216.37	7.594E-05	0.20	0.23	0.04
2/8/2016	18:00	22.0	1,060	3	136.0	29.9	600	114	81	300	42.03	657.68	2630.72	4	1312.63	8.195E-05	0.21	0.24	0.04
2/8/2016	18:30	22.0	1,062	3	136.0	30.1	599	108	82	330	42.11	656.58	2626.34	4	1310.44	8.181E-05	0.21	0.24	0.04
2/8/2016	19:00	22.0	1,037	3	135.0	29.7	624	117	81	360	41.19	683.99	2735.95	4	1365.13	8.523E-05	0.21	0.24	0.04
2/8/2016	19:30	22.0	1,028	3	137.0	28.9	643	110	83	390	40.69	704.81	2819.26	4	1406.70	8.782E-05	0.21	0.25	0.04
2/8/2016	20:00	22.0	1,054	3	138.0	29.1	703	120	83	420	41.65	770.58	3082.33	4	1537.96	9.601E-05	0.24	0.28	0.04
2/8/2016	20:30	22.0	1,030	3	136.0	29.5	688	133	81	450	40.84	754.14	3016.56	4	1505.15	9.397E-05	0.23	0.27	0.04
2/8/2016	21:00	22.0	1,048	3	135.0	28.8	741	140	81	480	41.63	812.23	3248.94	4	1621.10	1.012E-04	0.25	0.29	0.05
2/8/2016	22:00	22.0	1,057	3	137.0	28.9	793	119	85	540	41.84	869.23	3476.94	4	1734.86	1.083E-04	0.27	0.31	0.05
2/8/2016	23:00	22.0	1,052	3	137.0	29.2	814	146	82	600	41.64	892.25	3569.01	4	1780.80	1.112E-04	0.28	0.32	0.05
2/9/2016	0:00	22.0	1,061	3	137.0	29.5	850	161	81	660	42.00	931.71	3726.85	4	1859.56	1.161E-04	0.29	0.34	0.05
2/9/2016	8:00	22.0	1,048	3	140.0	27.1	917	185	80	1140	41.28	1005.15	4020.62	4	2006.13	1.252E-04	0.31	0.36	0.06
2/9/2016	9:00	22.0	1,052	3	140.0	27.4	987	187	81	1200	41.44	1081.88	4327.54	4	2159.27	1.348E-04	0.34	0.39	0.06
2/9/2016	10:00	22.0	1,058	3	140.0	27.3	1,089	189	83	1260	41.67	1193.69	4774.76	4	2382.42	1.487E-04	0.37	0.43	0.07
2/9/2016	11:00	22.0	1,044	3	140.0	28.2	1,074	204	81	1320	41.12	1177.25	4708.99	4	2349.60	1.467E-04	0.36	0.42	0.07
2/9/2016	12:00	22.0	1,034	3	140.0	28.3	1,098	189	83	1380	40.73	1203.55	4814.22	4	2402.11	1.500E-04	0.37	0.42	0.07
2/9/2016	13:00	22.0	1,058	3	141.0	28.2	1,141	217	81	1440	41.60	1250.69	5002.75	4	2496.18	1.558E-04	0.39	0.45	0.07
2/9/2016	15:00	22.0	1,052	3	143.0	28.7	1,120	193	83	1560	41.23	1227.67	4910.68	4	2450.24	1.530E-04	0.38	0.44	0.07
2/9/2016	17:00	22.0	1,072	3	143.0	28.9	1,089	196	82	1680	42.01	1193.69	4774.76	4	2382.42	1.487E-04	0.37	0.43	0.07
2/9/2016	19:00	22.0	1,063	3	143.0	29.4	1,093	217	80	1800	41.66	1198.07	4792.30	4	2391.17	1.493E-04	0.37	0.43	0.07
2/9/2016	21:00	22.0	1,054	3	143.0	29.0	1,104	179	84	1920	41.31	1210.13	4840.53	4	2415.24	1.508E-04	0.37	0.43	0.07
2/9/2016	23:00	22.0	1,058	3	144.0	29.8	1,068	198	81	2040	41.40	1170.67	4682.68	4	2336.48	1.459E-04	0.36	0.42	0.07
2/10/2016	0:00	22.0	1,056	3	143.0	29.9	1,041	187	82	2100	41.39	1141.07	4564.30	4	2277.41	1.422E-04	0.35	0.41	0.07
2/10/2016	8:00	22.0	1,064	3	140.0	31.4	979	176	82	2580	41.91	1073.11	4292.46	4	2141.77	1.337E-04	0.34	0.39	0.06
2/10/2016	10:00	22.0	1,050	3	140.0	31.7	908	173	81	2700	41.36	995.29	3981.16	4	1986.44	1.240E-04	0.31	0.36	0.06
2/10/2016	12:00	22.0	1,148	3	141.0	31.5	924	175	81	2820	45.14	1012.83	4051.31	4	2021.45	1.262E-04	0.34	0.40	0.06
2/10/2016	14:00	22.0	1,051	3	141.0	30.7	917	165	82	2940	41.33	1005.15	4020.62	4	2006.13	1.252E-04	0.31	0.36	0.06
2/10/2016	16:00	22.0	1,063	3	141.0	31.0	910	154	83	3060	41.80	997.48	3989.93	4	1990.82	1.243E-04	0.31	0.36	0.06
2/10/2016	18:00	22.0	1,048	3	140.0	31.1	948	180	81	3180	41.28	1039.13	4156.54	4	2073.95	1.295E-04	0.32	0.37	0.06
2/10/2016	20:00	22.0	1,049	3	141.0	30.8	957	173	82	3300	41.25	1049.00	4196.00	4	2093.64	1.307E-04	0.32	0.37	0.06
2/10/2016	22:00	22.0	1,033	3	141.0	29.9	902	162	82	3420	40.62	988.71	3954.85	4	1973.32	1.232E-04	0.30	0.35	0.06
2/11/2016	0:00	22.0	1,047	3	142.0	30.4	949	190	80	3540	41.10	1040.23	4160.92	4	2076.14	1.296E-04	0.32	0.37	0.06
2/11/2016	8:00	22.0	1,058	3	142.0	29.7	988	178	82	4020	41.53	1082.98	4331.92	4	2161.46	1.349E-04	0.34	0.39	0.06
2/11/2016	10:00	22.0	1,056	3	143.0	29.8	987	188	81	4140	41.39	1081.88	4327.54	4	2159.27	1.348E-04	0.33	0.39	0.06
2/11/2016	12:00	22.0	1,049	3	143.0	30.1	900	171	81	4260	41.11	986.52	3946.08	4	1968.94	1.229E-04	0.30	0.35	0.06
2/11/2016	14:00	22.0	1,053	3	143.0	30.3	842	143	83	4380	41.27	922.94	3691.78	4	1842.05	1.150E-04	0.28	0.33	0.05
2/11/2016	16:00	22.0	1,054	3	143.0	30.0	793	143	82	4500	41.31	869.23	3476.94	4	1734.86	1.083E-04	0.27	0.31	0.05
2/11/2016	18:00	22.0	1,083	3	145.0	29.7	754	136	82	4620	42.31	826.48	3305.94	4	1649.54	1.030E-04	0.26	0.30	0.05
2/11/2016	20:00	22.0	1,071	3	145.0	29.9	763	129	83	4740	41.84	836.35	3345.40	4	1669.23	1.042E-04	0.26	0.30	0.05
2/11/2016	22:00	22.0	1,049	3	144.0	29.8	699	133	81	4860	41.04	766.20	3064.79	4	1529.21	9.547E-05	0.24	0.27	0.04
2/12/2016	0:00	22.0	1,033	3	145.0	30.2	587	117	80	4980	40.35	643.43	2573.72	4	1284.19	8.017E-05	0.19	0.22	0.04
2/12/2016	8:00	22.0	1,064	3	147.0	30.1	497	93	81	5460	41.43	544.78	2179.11	4	1087.29	6.788E-05	0.17	0.20	0.03
2/12/2016	10:00	22.0	1,060	3	147.0	30.7	400	75	81	5580	41.27	438.45	1753.81	4	875.09	5.463E-05	0.14	0.16	0.03
2/12/2016	12:00	22.0	1,054	3	147.0	30.3	398	72	82	5700	41.04	436.26	1745.04	4	870.71	5.436E-05	0.13	0.15	0.02
2/12/2016	13:00	22.0	1,056	3	147.0	30.2	372	70	81	5760	41.11	407.76	1631.05	4	813.83	5.081E-05	0.13	0.15	0.02
Average		22.0	1044.9	3.0	138.4	29.7	771	141	82		41.26	845.55	3382.18	4	1687.58	1.054E-04	0.26	0.30	0.05
Bws =	0.088	Bwsv:	0.06																

Total Pounds of Carbon Recovered as Emissions: 25.04
Total Pounds of Gasoline Vapor Recovered as Emissions: 28.97
Total Gallons of Gasoline Recovered as Emissions: 4.64
(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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ 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/K_3)

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 Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (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

*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

Well #	MW-4	Well #	RW-2
Elapsed Time	Stinger Depth (ft)*	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	20.0	47	20.0
49	20.0	49	20.0
51	19.0	51	19.0
53	19.0	53	19.0
55	19.0	55	19.0
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

*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

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	0.25	0	1.00
0.5	0.25	0.5	0.25	0.5	1.25
1	0.50	1	0.50	1	1.50
1.5	0.50	1.5	0.50	1.5	1.50
2	0.50	2	0.50	2	1.50
2.5	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	4	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	0.50	31.5	0.50	31.5	1.50
33.5	0.50	33.5	0.50	33.5	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	0.50	92.5	1.50
94.5	0.50	94.5	0.50	94.5	1.50
96	0.50	96	0.50	96	1.50

SECTION F-3
VACUUM DATA TABLE (EVENT 2)
WINDSOR MART
CHERAW, SOUTH CAROLINA
SCDHEC UST PERMIT #02314
FEBRUARY 8-12, 2016

Well #	MW-1	Well #	MW-12	Well #	MW-13
Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in 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

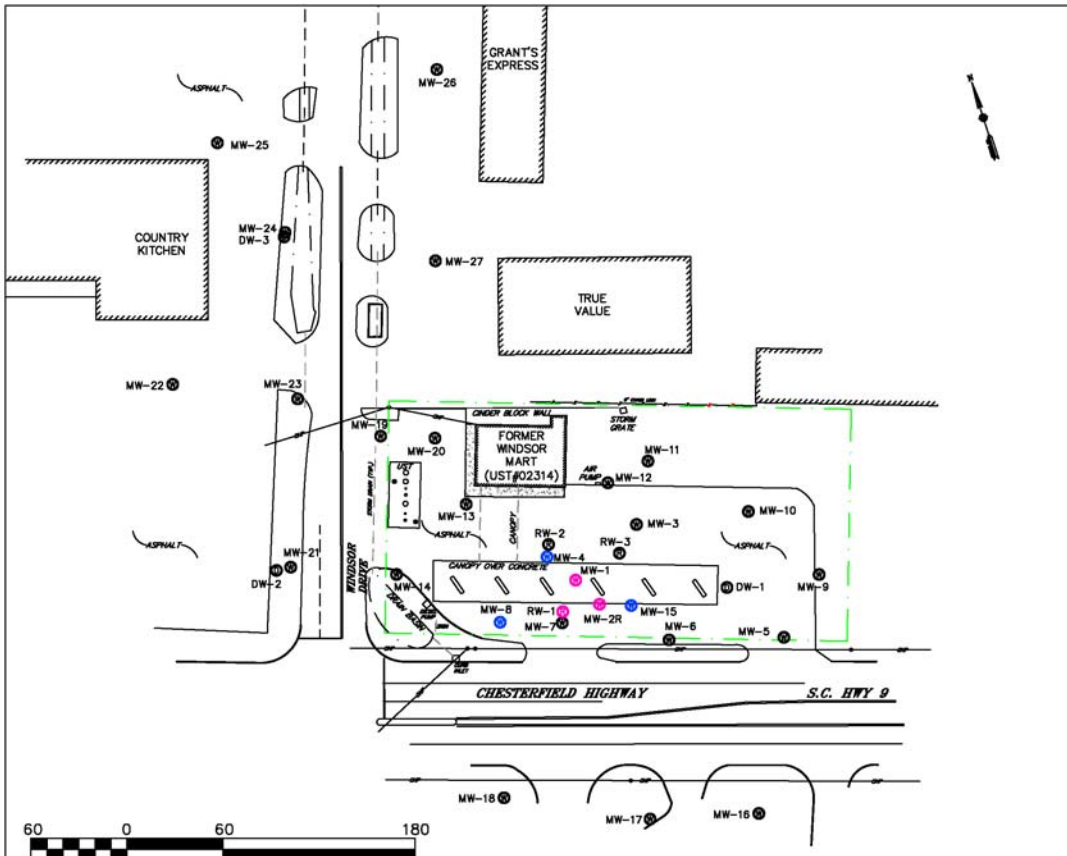
Well #	--	Depth to Product	Depth to Water	Product Thickness
MW-1	Initial	13.15	15.28	2.13
	Final	13.42	13.69	0.27
MW-2R	Initial	13.59	13.90	0.31
	Final	14.02	14.03	0.01
RW-1	Initial	13.37	14.98	1.61
	Final	13.95	14.64	0.69
MW-4	Initial	12.33	15.35	3.02
	Final	13.97	13.98	0.01
MW-8	Initial	n/a	13.79	n/a
	Final	n/a	14.40	n/a
MW-15	Initial	n/a	13.58	n/a
	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
	Final	n/a	13.50	n/a
RW-2	Initial	10.78	12.38	1.60
	Final	n/a	12.90	n/a
MW-1	Initial	n/a	12.68	n/a
	Final	n/a	13.41	n/a
MW-12	Initial	n/a	11.55	n/a
	Final	n/a	12.26	n/a
MW-13	Initial	n/a	11.70	n/a
	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



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

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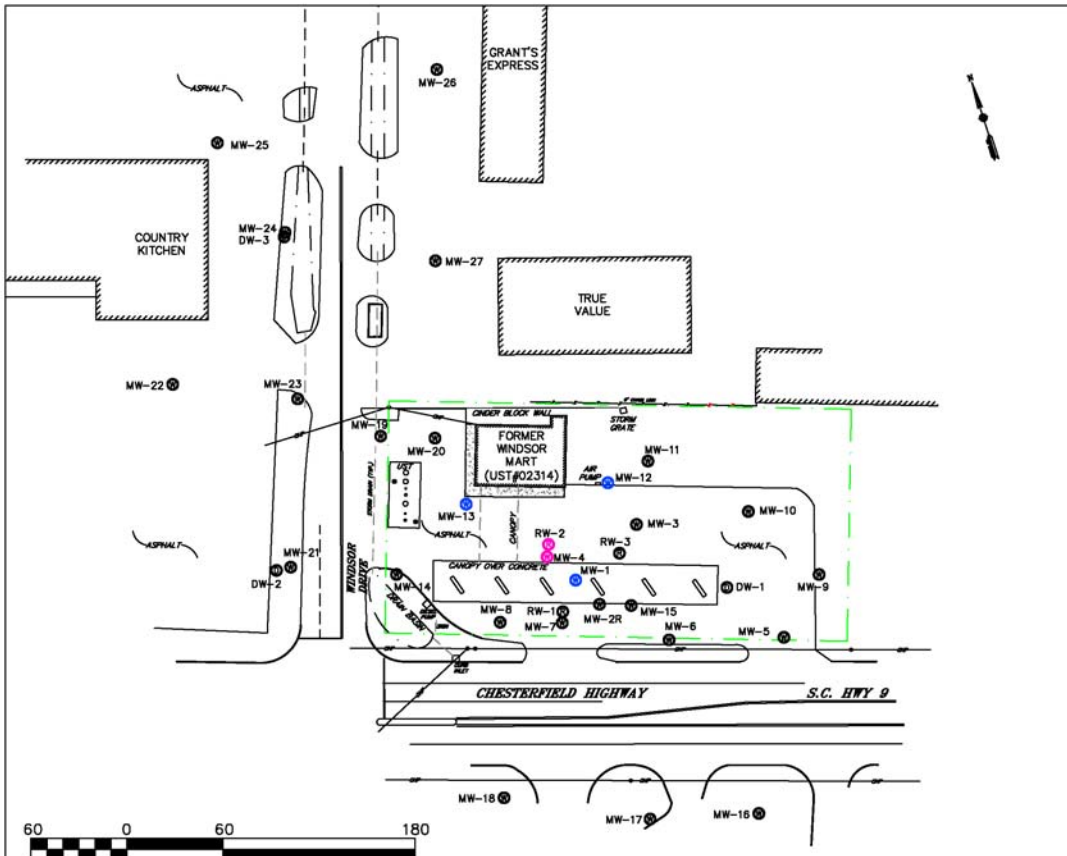
FIGURE F-8
AFVR MAP (EVENT 1)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9D	02314
SCALE 1" = 60'	DATE February 2016



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
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- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

TERRY ENVIRONMENTAL SERVICES
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FIGURE F-8
AFVR MAP (EVENT 2)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9D	02314
SCALE 1" = 60'	DATE February 2016

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

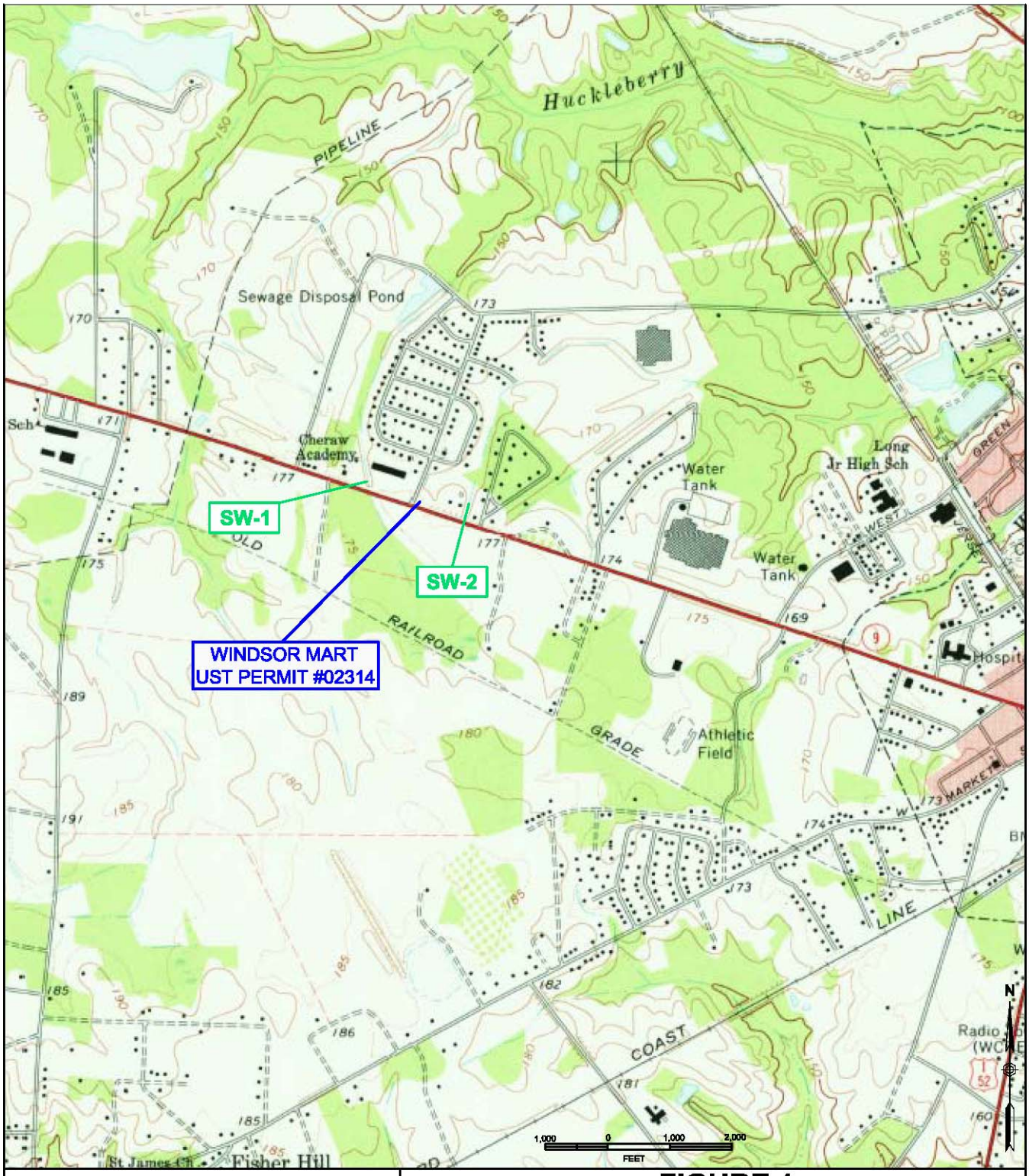

FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

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... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

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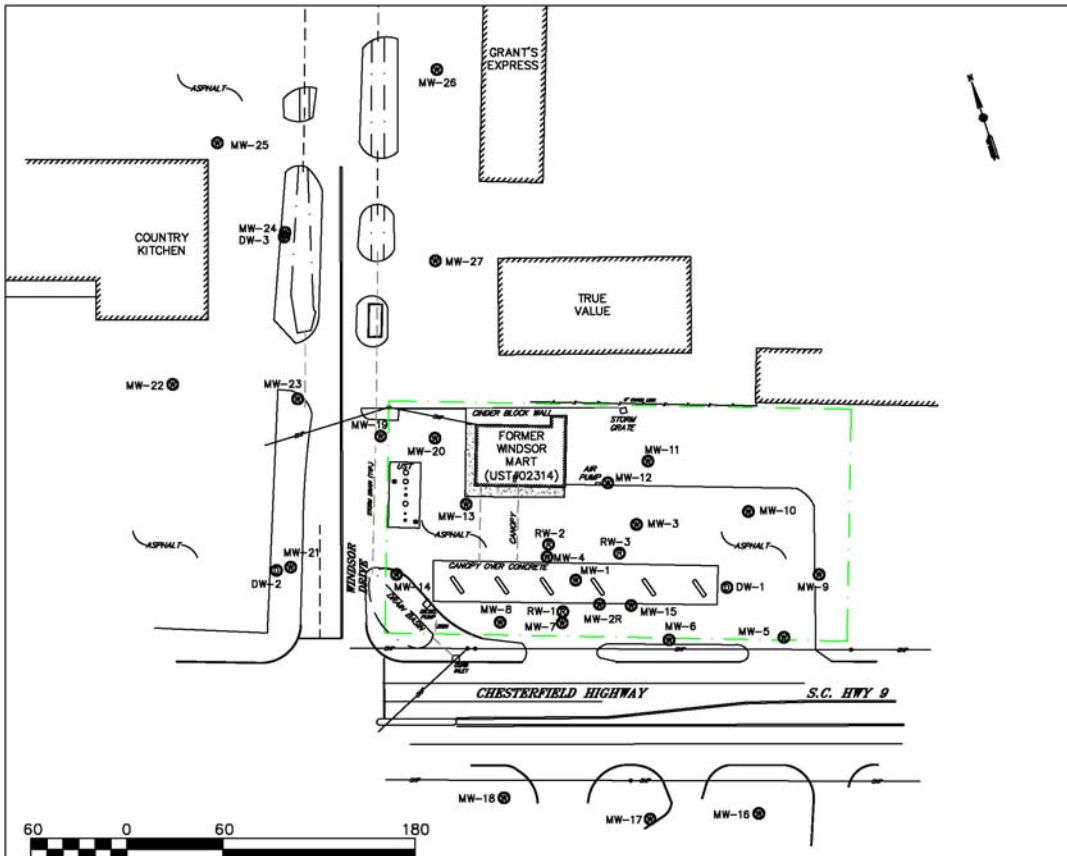
SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9D	Figure 1 Topo Map	

SCALE: As Shown

DATE: February 2016



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

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FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9D	02314
SCALE 1" = 60'	DATE February 2016

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

Groundwater Sampling Log

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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9D
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 /26 /2016
Field Personnel	DS
General Weather	Sunny
Ambient Air Temperature	50

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)		*Last Verification √(time)*	

Monitoring Well Information

Well ID	02314 - MW 1	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10-21	ft
Total Well Depth (nearest 0.1')	20.9	ft
Depth to Groundwater (nearest 0.01')	12.62	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield *Low* ☐ *Medium* ☐ *High* ☐

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9D
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 /26 /2016
Field Personnel	DS
General Weather	Sunny
Ambient Air Temperature	50

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)		*Last Verification √(time)*	

Monitoring Well Information

Well ID	02314 - MW 2R	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.2	ft
Depth to Groundwater (nearest 0.01')	12.67	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield	*Low* ☐ *Medium* ☐ *High* ☐	

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.2

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9D
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7/26/2016
Field Personnel	DS
General Weather	Sunny
Ambient Air Temperature	50

Monitoring Well Information

Well ID	02314 - ~~10~~ MW-3
Testing Parameters	Gauge Well Only

Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	19.8	ft
Depth to Groundwater (nearest 0.01')	10.16	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield *Low* ☐ *Medium* ☐ *High* ☐

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)		*Last Verification √(time)*	

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9D
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2/26 /2016
Field Personnel	DS
General Weather	Sunny
Ambient Air Temperature	50

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW4	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	19.8	ft
Depth to Groundwater (nearest 0.01')	12.02	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments _____

Additional Comments

DTP 11.97
DTW 12.02

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9D
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2/26/2016
Field Personnel	DJ
General Weather	Sunny
Ambient Air Temperature	50

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)		*Last Verification √ (time)*	

Monitoring Well Information

Well ID	02314 - MW-13	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.2	ft
Depth to Groundwater (nearest 0.01')	12.54	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield	*Low* ☐ *Medium* ☐ *High* ☐	

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.2

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9D
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2/26/2016
Field Personnel	DJ
General Weather	Sunny
Ambient Air Temperature	50

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)		*Last Verification √(time)*	

Monitoring Well Information

Well ID	02314 - RW1	
Testing Parameters	Gauge Well Only	
Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	29.8	ft
Depth to Groundwater (nearest 0.01')	13.01	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield *Low* ☐ *Medium* ☐ *High* ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

29.8

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

DTP 12.66
13.01

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9D
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	2 /16 /2016
Field Personnel	DJ
General Weather	Sunny
Ambient Air Temperature	50

Monitoring Well Information

Well ID	02314 - RW2
Testing Parameters	Gauge Well Only

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	29.9	ft
Depth to Groundwater (nearest 0.01')	12.07	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield *Low* ☐ *Medium* ☐ *High* ☐

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)		*Last Verification √ (time)*	

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Carmen Cupboard
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Tony Ervin
P.O Box 25
Summerville SC
Phone ( )
P O #:

4. Transporter Company Name: Foodsell Services
511 old Mt Holly Rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	LT	Gal	5277

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: M. Taylor | Signature: | Date: 2/2/16

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: 2/2/16

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): 02317 — Waste ID Number:

2. Generator's Name and Mailing Address: WINDSOR MART 820 [illegible] North Highway / Moncks, SC — Phone ( ) — P O #:

3. Agent of Generator and Mailing Address: [illegible] ENVIRONMENTAL / P.O. BOX 25 / SUMMERVILLE, SC — Phone ( ) — P O #:

4. Transporter Company Name: Goodsell Services 511 old MT Holly Rd Goose Creek SC 29445 — 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	LT	GAL	5145

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: Montgomery Tanner — Signature: [signature] — Date: 2/12/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: David Kinard — Signature: [signature] — Date: 2/12/16

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Carmen Cupboard
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Terry Enr
Summerville SC 29445
Phone ( )
P O #:

4. Transporter Company Name: Goodsell Services
511 old MT Holly Rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	GAL	5277

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: | Date: 2/3/16

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: 2/3/16

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

5121

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Formally Windsor Mart (Lornick approved)
820 Chesterfield Highway
Cheraw, SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
Terry Envi
P.O. Box 25
Summerville, SC
Phone ( )
P O #:

4. Transporter Company Name:
Goodsell Services
511 Old Mt Holly Road
Goose Creek, SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	CT	Gal	5625

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: Montgomery Taylor | Signature: | Date: 2/3/10

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date:

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Winsor Mart (corner Lyppard)
820 Christenbury Hwy
Cheraw, SC

Phone ( )

P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental
P.O. Box 25
Summerville, SC 29484

Phone ( )

P O #:

4. Transporter Company Name:
Goodsell Services
511 Old Mt Holly Rd.
Goose Creek, SC 29445

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	5298

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: | Date: 2/9/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date: 2/9/16

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Coram Cupboard
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Tony Eaw
Summerville SC 29485
Phone ( )
P O #:

4. Transporter Company Name: Coastal Services
511 old Mt Holly rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	5391

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: Date:

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date:

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
WINDSOR MART (CORNER APPROACH)
820 Chesterfield Highway
Cheraw, SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
TERRY END
P.O. Box
SUMMERVILLE, SC 29484
Phone ( )
P O #:

4. Transporter Company Name:
Goodwill Services
511 Old Mt. Holly Rd.
Goose Creek, SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	5219

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: Montgomery Taylor | Signature: | Date: 2/15/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: David Kuehn | Signature: | Date:

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums **Number:**

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Corrin Cupland
& 20 Chesterfield Hwy
Cheraw SC | Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Terry Env
Summerville SC | Phone ( )
P O #:

4. Transporter Company Name: Roadrunner Services
511 old Mt Holly Rd
Goose Creek SC 29445 | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	22009

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: | Date: 2/6/14

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date:

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Corner Cupboard, 820 Chesterfield Hwy, Cheraw SC — Phone ( ) — P.O #:

3. Agent of Generator and Mailing Address: Terry Enr, Summerville SC — Phone ( ) — P.O #:

4. Transporter Company Name: Sandell Services, 511 Old Mt Holly Rd, Goose Creek SC 29445 — 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	5000

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: Brian Spillane — Signature: — Date:

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Don Kinman — Signature: — Date: 2/9/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: David Wood — Signature: David Wood — Date 2-9-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12102

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart, Cheraw SC | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Terry Env. Services, Summerville SC | Phone ( ) | P O #: 25

4. Transporter Company Name: Goodsell Transport, 511 Old Mt Holly Rd, Goose Creek, SC | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	5,000

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: Dillon Slade | Signature: | Date: 2/9/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Donald Jones | Signature: Donald Jones | Date: 2/9/14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: | Signature: | Date 02/06/14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13441

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (If applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Corner Cupboard
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Terry Env
Summerville SC
Phone ( )
P O #:

4. Transporter Company Name: Goodsell Services
511 old Mt Holly rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	4485

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: Brian Spillane Signature: Date: 2/10/16

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Don Kinsinger Signature: Date: 2/10/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: Signature: Date 2-10-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12103

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsormart, Cheraw SC | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Terry Environmental Services, Summerville SC 29484 | Phone ( ) | P O #: 25

4. Transporter Company Name: Goodsell Transport, 511 Old Mt Holly Rd, Goose Creek, SC | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	4,000

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: Billy Slade | Signature: Billy Slade | Date:

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Donald Jones | Signature: Donald Jones | Date: 2/10/14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: | Signature: | Date 2/10/14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12094

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Conner Cupboard
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Terry Env
Summerville SC
Phone ( )
P O #:

4. Transporter Company Name: Woodsall Services
511 old Mt Holly rd
Phone ( )
Truck & Trailer License Number: Goose Creek SC 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	YT	Gal	5505

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: Brian Spillane | Signature: | Date: 2/11/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Darrel Kinard | Signature: | Date: 2/10/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: | Signature: | Date 2-11-16

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

12104

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsormart, Chesaw SC | Phone ( ) | P O #:

3. Agent of Generator and Mailing Address: Testy Environmental Service, Summerville SC 29484 | Phone ( ) | P O #: 25

4. Transporter Company Name: Goodsell Transport, 511 Old Mt Holly Rd, Goose Creek, SC 29445 | 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	3500

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: Bill Slade | Signature: Bill Slade | Date: 2/11/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: DONALD JONES | Signature: Donald Jones | Date: 2/11/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Walter Nolan | Signature: Walter Nolan | Date: 02/11/16

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

12095

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums **Number:**

1. Generator's EPA ID# (If applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Conner Cogbond
820 Chesterfield Hwy
Cheraw SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address: Terry Faw
Summerville SC
Phone ( )
P O #:

4. Transporter Company Name: Goodsell Services
511 old Mt Holly rd
Goose Creek SC 29445
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	4922

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: Brian Spillane Signature: Date: 2/12/16

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: David Kinsman Signature: Date: 2/12/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: David Wood Signature: Date

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12106

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Phone ( )
Corner Cupboard
Cheraw SC
P O #:

3. Agent of Generator and Mailing Address: Phone ( )
Terry Environmental
P O #:

4. Transporter Company Name: Phone ( )
Goodsell Transport

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	106	VT	Gal	1500

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 conform as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.

Printed/Typed Name: Signature: Date:

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Todd Brown Signature: Todd Brown Date: 2-13-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: Nathalie Signature: Nathalie Date 02-13-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13396

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

Contractor Checklist – Windsor Mart

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X 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 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) - 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.

UST
MAR 1 8 2016
PROGRAM

TERRY ENVIRONMENTAL SERVICES

...providing our Clients with the highest quality environmental services available, actually understanding our Clients' objectives, and making their objectives our own!

UST
19 tech
DOCKETING

LETTER OF TRANSMITTAL			
To:	**Ashleigh Trash**	**From:**	**Kelly Cone**
Address:	**2600 Bull Street**	**Address:**	**PO Box 25**
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 ☐ PLEASE REPLY ☐ PLEASE RECYCLE

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

US Water Recovery

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,

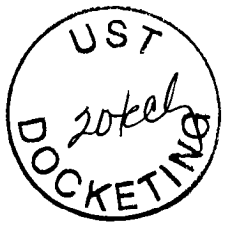
Paul Goodsell
President

D H E C

PROMOTE PROTECT PROSPER

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) 898-0607or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

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	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						
		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 Amount		35,855 96

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 5-17-16

Permit Number 02314

Project Manager Ashleigh Thrash

Name of Contractor TES

UST Certification Number _____

Docket Number 21411

Scanned _____

AFVR/Gauging 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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

JASON A. TERRY, PG
President

KELLY K. CONE REGISTERED No. 2509 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

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	--

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 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

Date:	April 25-29, 2016			**Average Depth to Groundwater:**	15-17 ft.
Site Name:	Windsor Mart			**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314			**Vacuum Contractor:**	TERRY Exploration Services, LLC
Well ID #:	MW-4 & RW-1	**Blower Specification of the Vacuum Truck (CFM @ Hg):**		282 CFM @ 25" Hg	

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)												EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{wv}	PPM_{cont}	Reduction	Elapsed time	Flow	PPM_v	PPM_c	K	C_{cont}	C_c	PMR_c	PMR_v	PMR_t
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
4/25/2016	10:00	20.0	1,087	3	109.2	28.4	1,652	58.1	96	0	45.13	1810.81	7243.25	4	3614.10	2.256E-04	0.61	0.71	0.11
4/25/2016	10:30	21.0	1,116	3	116.7	25.2	1,781	69.7	96	30	45.73	1952.21	7808.86	4	3896.32	2.432E-04	0.67	0.77	0.12
4/25/2016	11:00	22.0	1,092	3	121.3	24.3	1,812	88.4	95	60	44.40	1986.19	7944.78	4	3964.14	2.475E-04	0.66	0.76	0.12
4/25/2016	11:30	22.0	1,071	3	125.8	25.6	1,841	96.7	95	90	43.21	2017.98	8071.93	4	4027.58	2.514E-04	0.65	0.75	0.12
4/25/2016	12:00	22.0	1,083	3	133.9	23.8	1,832	98.9	95	120	43.10	2008.12	8032.47	4	4007.89	2.502E-04	0.65	0.75	0.12
4/25/2016	12:30	22.0	1,074	3	141.6	21.7	1,844	122	93	150	42.19	2021.27	8085.08	4	4034.14	2.519E-04	0.64	0.74	0.12
4/25/2016	13:00	22.0	1,092	3	145.7	22.3	1,807	127	93	180	42.61	1980.71	7922.85	4	3953.20	2.468E-04	0.63	0.73	0.12
4/25/2016	13:30	22.0	1,081	3	148.3	21.4	1,742	130	93	210	42.00	1909.46	7637.86	4	3811.00	2.379E-04	0.60	0.69	0.11
4/25/2016	14:00	22.0	1,088	3	150.1	23.6	1,731	133	92	240	42.15	1897.41	7589.63	4	3786.93	2.364E-04	0.60	0.69	0.11
4/25/2016	14:30	22.0	1,099	3	149.8	24.2	1,714	128	93	270	42.59	1878.77	7515.09	4	3749.74	2.341E-04	0.60	0.69	0.11
4/25/2016	15:00	22.0	1,104	3	151.2	21.7	1,780	134	92	300	42.69	1951.12	7804.47	4	3894.13	2.431E-04	0.62	0.72	0.12
4/25/2016	15:30	22.0	1,076	3	150.6	20.9	1,762	125	93	330	41.65	1931.39	7725.55	4	3854.75	2.407E-04	0.60	0.70	0.11
4/25/2016	16:00	22.0	1,085	3	151.4	23.6	1,706	121	93	360	41.94	1870.00	7480.02	4	3732.24	2.330E-04	0.59	0.68	0.11
4/25/2016	16:30	22.0	1,092	3	152.3	22.4	1,649	117	93	390	42.15	1807.52	7230.10	4	3607.54	2.252E-04	0.57	0.66	0.11
4/25/2016	17:00	22.0	1,112	3	151.0	25.2	1,634	113	93	420	43.01	1791.08	7164.33	4	3574.72	2.232E-04	0.58	0.67	0.11
4/25/2016	17:30	22.0	1,078	3	148.9	24.5	1,632	127	92	450	41.84	1788.89	7155.56	4	3570.35	2.229E-04	0.56	0.65	0.10
4/25/2016	18:00	22.0	1,076	3	148.3	24.1	1,641	138	92	480	41.80	1798.76	7195.02	4	3590.04	2.241E-04	0.56	0.65	0.10
4/25/2016	19:00	22.0	1,082	3	146.4	23.8	1,625	143	91	540	42.17	1781.22	7124.87	4	3555.03	2.219E-04	0.56	0.65	0.10
4/25/2016	20:00	22.0	1,080	3	147.2	24.7	1,603	148	91	600	42.04	1757.10	7028.41	4	3506.90	2.189E-04	0.55	0.64	0.10
4/25/2016	21:00	22.0	1,077	3	147.3	21.6	1,589	130	92	660	41.91	1741.76	6967.02	4	3476.28	2.170E-04	0.55	0.63	0.10
4/25/2016	22:00	22.0	1,094	3	147.8	22.4	1,576	124	92	720	42.54	1727.51	6910.03	4	3447.84	2.152E-04	0.55	0.64	0.10
4/25/2016	23:00	22.0	1,078	3	146.2	21.7	1,592	132	92	780	42.03	1745.04	6980.18	4	3482.84	2.174E-04	0.55	0.63	0.10
4/26/2016	0:00	22.0	1,105	3	145.1	22.0	1,564	127	92	840	43.16	1714.35	6857.41	4	3421.58	2.136E-04	0.55	0.64	0.10
4/26/2016	8:00	22.0	1,091	3	145.4	23.9	1,538	121	92	1320	42.59	1685.85	6743.41	4	3364.70	2.101E-04	0.54	0.62	0.10
4/26/2016	9:00	22.0	1,087	3	146.8	24.2	1,527	123	92	1380	42.34	1673.80	6695.18	4	3340.64	2.086E-04	0.53	0.61	0.10
4/26/2016	10:00	22.0	1,083	3	147.3	25.4	1,503	128	91	1440	42.14	1647.49	6589.95	4	3288.13	2.053E-04	0.52	0.60	0.10
4/26/2016	12:00	22.0	1,098	3	149.6	24.3	1,487	116	92	1560	42.57	1629.95	6519.80	4	3253.13	2.031E-04	0.52	0.60	0.10
4/26/2016	14:00	22.0	1,112	3	152.3	23.4	1,421	104	93	1680	42.92	1557.61	6230.42	4	3108.74	1.941E-04	0.50	0.58	0.09
4/26/2016	16:00	22.0	1,072	3	154.2	22.8	1,433	117	92	1800	41.25	1570.76	6283.04	4	3134.99	1.957E-04	0.48	0.56	0.09
4/26/2016	18:00	22.0	1,116	3	151.6	21.7	1,416	129	91	1920	43.12	1552.13	6208.50	4	3097.80	1.934E-04	0.50	0.58	0.09
4/26/2016	20:00	22.0	1,094	3	148.7	21.9	1,429	133	91	2040	42.48	1566.37	6265.50	4	3126.24	1.952E-04	0.50	0.58	0.09
4/26/2016	22:00	22.0	1,070	3	147.2	20.3	1,444	122	92	2160	41.65	1582.82	6331.27	4	3159.06	1.972E-04	0.49	0.57	0.09
4/27/2016	0:00	22.0	1,079	3	146.4	22.6	1,432	116	92	2280	42.05	1569.66	6278.65	4	3132.81	1.956E-04	0.49	0.57	0.09
4/27/2016	8:00	22.0	1,092	3	148.3	29.3	1,409	138	90	2760	42.43	1544.45	6177.81	4	3082.49	1.924E-04	0.49	0.57	0.09
4/27/2016	10:00	22.0	1,083	3	149.5	27.4	1,412	141	90	2880	41.99	1547.74	6190.96	4	3089.05	1.928E-04	0.49	0.56	0.09
4/27/2016	12:00	22.0	1,114	3	150.6	23.1	1,370	104	92	3000	43.12	1501.70	6006.81	4	2997.17	1.871E-04	0.48	0.56	0.09
4/27/2016	14:00	22.0	1,098	3	150.4	25.3	1,354	162	88	3120	42.51	1484.16	5936.66	4	2962.16	1.849E-04	0.47	0.55	0.09
4/27/2016	16:00	22.0	1,082	3	150.7	27.4	1,372	205	85	3240	41.87	1503.90	6015.58	4	3001.54	1.874E-04	0.47	0.54	0.09
4/27/2016	18:00	22.0	1,074	3	149.2	26.2	1,368	191	86	3360	41.66	1499.51	5998.04	4	2992.79	1.868E-04	0.47	0.54	0.09
4/27/2016	20:00	22.0	1,089	3	150.1	24.1	1,344	174	87	3480	42.18	1473.20	5892.81	4	2940.29	1.836E-04	0.46	0.54	0.09
4/27/2016	22:00	22.0	1,100	3	151.2	23.5	1,350	200	85	3600	42.53	1479.78	5919.12	4	2953.41	1.844E-04	0.47	0.54	0.09
4/28/2016	0:00	22.0	1,097	3	149.3	25.6	1,353	189	86	3720	42.55	1483.07	5932.27	4	2959.98	1.848E-04	0.47	0.55	0.09
4/28/2016	8:00	22.0	1,082	3	149.8	28.1	1,310	170	87	4200	41.93	1435.93	5743.74	4	2865.90	1.789E-04	0.45	0.52	0.08
4/28/2016	10:00	22.0	1,081	3	148.3	29.0	1,309	169	87	4320	42.00	1434.84	5739.36	4	2863.72	1.788E-04	0.45	0.52	0.08
4/28/2016	12:00	22.0	1,084	3	148.7	28.7	1,311	168	87	4440	42.09	1437.03	5748.12	4	2868.09	1.791E-04	0.45	0.52	0.08
4/28/2016	14:00	22.0	1,089	3	148.9	28.3	1,316	169	87	4560	42.27	1442.51	5770.05	4	2879.03	1.797E-04	0.46	0.53	0.08
4/28/2016	16:00	22.0	1,091	3	145.5	27.3	1,314	165	87	4680	42.58	1440.32	5761.28	4	2874.65	1.795E-04	0.46	0.53	0.08
4/28/2016	18:00	22.0	1,092	3	144.2	28.3	1,318	168	87	4800	42.71	1444.70	5778.82	4	2883.41	1.800E-04	0.46	0.53	0.09
4/28/2016	20:00	22.0	1,091	3	143.7	26.1	1,316	162	88	4920	42.71	1442.51	5770.05	4	2879.03	1.797E-04	0.46	0.53	0.09
4/28/2016	22:00	22.0	1,088	3	146.6	23.8	1,322	161	88	5040	42.39	1449.09	5796.35	4	2892.16	1.806E-04	0.46	0.53	0.09
4/29/2016	0:00	22.0	1,089	3	146.3	23.7	1,324	155	88	5160	42.45	1451.28	5805.12	4	2896.53	1.808E-04	0.46	0.53	0.09
4/29/2016	8:00	22.0	1,085	3	141.3	24.3	1,321	153	88	5640	42.64	1447.99	5791.97	4	2889.97	1.804E-04	0.46	0.53	0.09
4/29/2016	10:00	22.0	1,083	3	146.2	25.9	1,319	151	89	5760	42.22	1445.80	5783.20	4	2885.59	1.801E-04	0.46	0.53	0.08
Average		21.9	1088.8	3.0	145.7	24.4	1520	137	91		42.48	1665.94	6663.75	4	3324.95	2.076E-04	0.53	0.61	0.10
Bws =	0.088	Bwsw:	0.06																

Total Pounds of Carbon Recovered as Emissions: 50.79

Total Pounds of Gasoline Vapor Recovered as Emissions: 58.77

Total Gallons of Gasoline Recovered as Emissions: 9.40

(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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ 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/K_3)

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	18.0	24	18.0
26	18.0	26	18.0
28	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

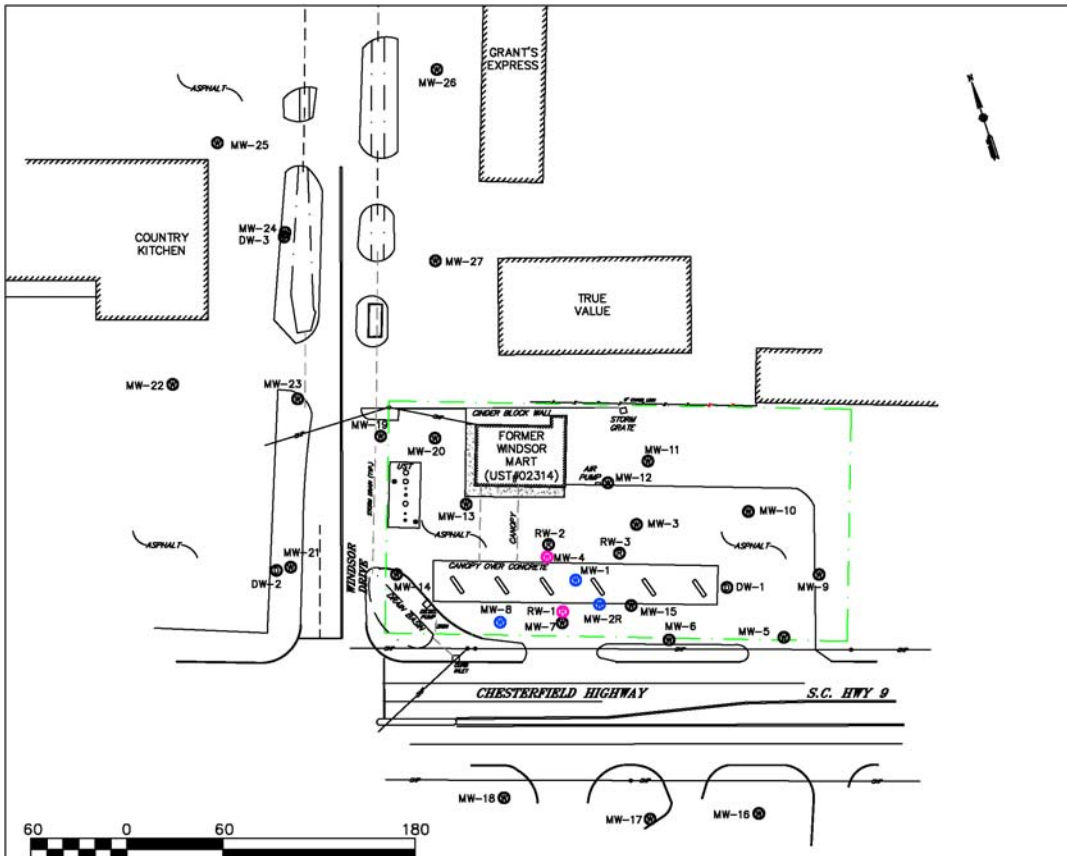
Well #	MW-1	Well #	MW-2R	Well #	MW-8
Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)	Elapsed Time	Vacuum (in H2O)
0	0.8	0	0.0	0	0.0
0.5	2.3	0.5	0.1	0.5	0.0
1	3.4	1	0.1	1	0.0
1.5	3.9	1.5	0.1	1.5	0.0
2	4.1	2	0.1	2	0.0
2.5	4.1	2.5	0.2	2.5	0.0
3	4.5	3	0.2	3	0.0
3.5	4.5	3.5	0.2	3.5	0.0
4	4.5	4	0.2	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
72	4.5	72	0.2	72	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 #	--	Depth to Product	Depth to Water	Product Thickness
MW-4	Initial	15.50	15.57	0.07
	Final	n/a	16.02	n/a
RW-1	Initial	15.92	16.17	0.25
	Final	16.35	16.45	0.10
MW-1	Initial	n/a	15.88	n/a
	Final	n/a	16.26	n/a
MW-2R	Initial	15.89	15.92	0.03
	Final	16.29	16.33	0.04
MW-8	Initial	n/a	15.96	n/a
	Final	n/a	16.02	n/a

SECTION F-7
FREE PRODUCT THICKNESS TABLE (GAUGING)
WINDSOR MART
CHERAW, SOUTH CAROLINA
SCDHEC UST PERMIT #02314
MAY 13, 2016

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



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

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FIGURE F-8
AFVR MAP (96 HOUR EVENT)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9E	02314
SCALE 1" = 60'	DATE May 2016

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

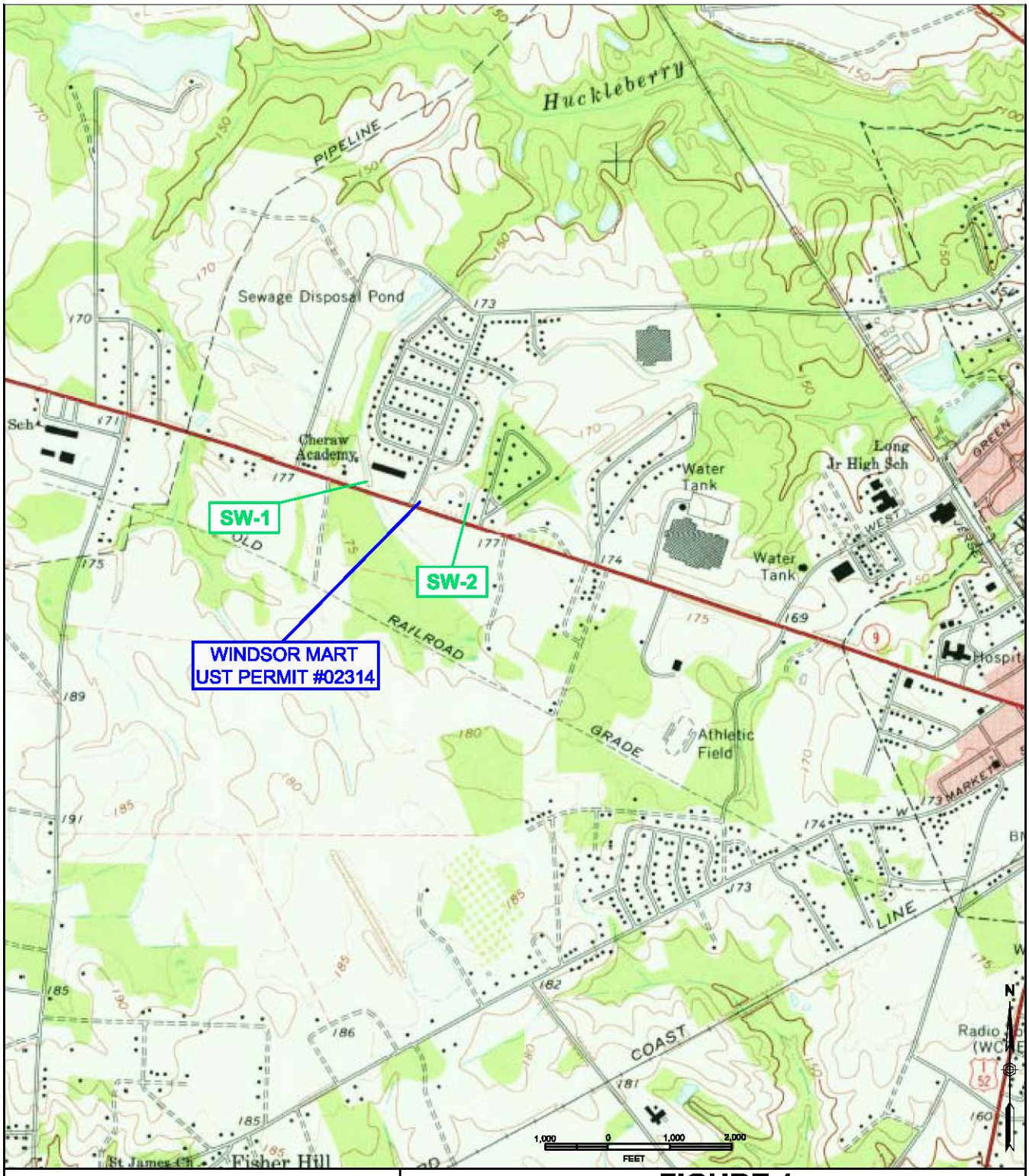

FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

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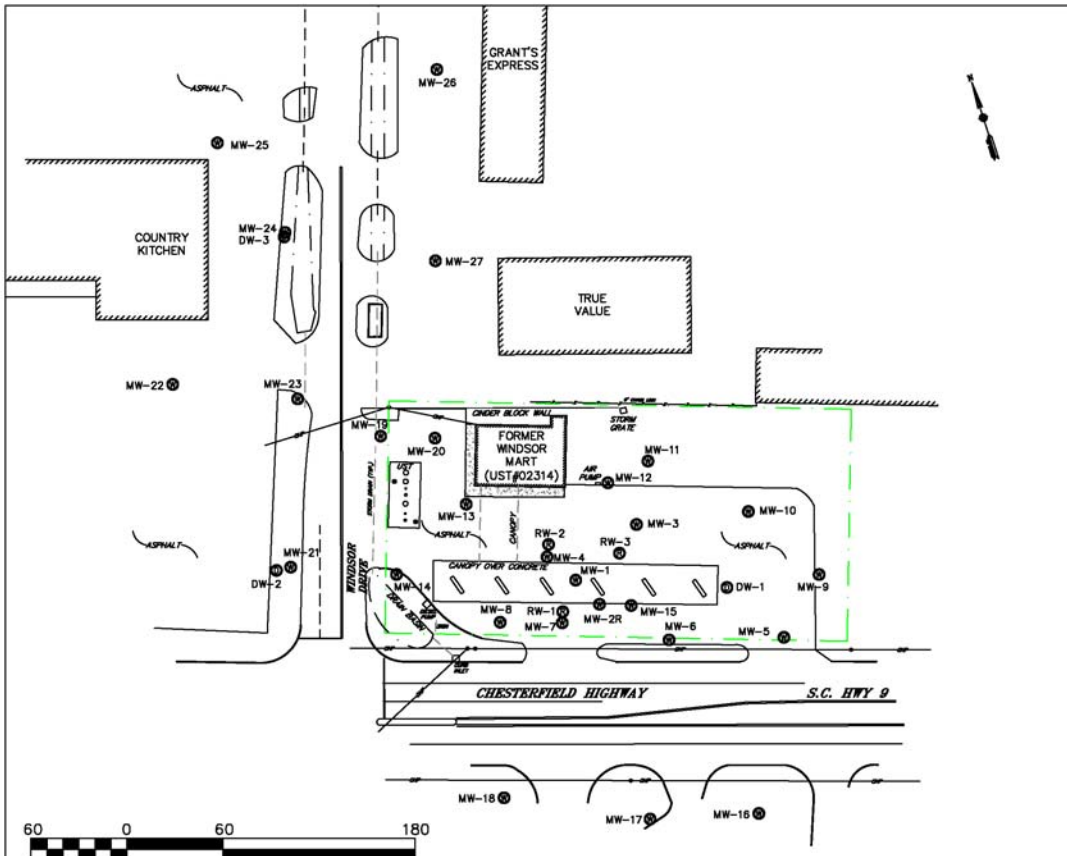
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9E	Figure 1 Topo Map	

SCALE: As Shown

DATE: May 2016



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

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FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9E	02314
SCALE 1" = 60'	DATE May 2016

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

Groundwater Sampling Log

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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9E
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	5/13 /2016
Field Personnel	BS
General Weather	Clear
Ambient Air Temperature	70°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-1	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	19.8	ft
Depth to Groundwater (nearest 0.01')	16.49	ft
Length of Water Column	3.31	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

19.8

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DTP	DTW	Difference
16.47	16.49	0.02

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9E
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	5/13 /2016
Field Personnel	BS
General Weather	Clear
Ambient Air Temperature	70°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-2R	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	16.55	ft
Length of Water Column	3.75	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe? ↓
-other comments

Additional Comments

DTP	DTW	Difference
16.52	16.55	0.03

Groundwater Sampling Log

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9E
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	5/13 /2016
Field Personnel	TJS
General Weather	Clear
Ambient Air Temperature	70°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-3	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	19.9	ft
Depth to Groundwater (nearest 0.01')	14.03	ft
Length of Water Column	5.87	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield	Low ☐ Medium ☐ High ☐	

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

19.9

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DTP	DTW	Difference
14.02	14.03	0.01

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9E
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	5/13/2016
Field Personnel	BS
General Weather	Clear
Ambient Air Temperature	70°

Quality Assurance

pH Meter	Horiba U-52-2	*Conductivity Meter*	Horiba U-52-2
Serial Number	VWKAUMKJ	*Serial Number*	VWKAUMKJ
Calibration Constant	4.00	*Calibration Constant*	4.49 mS/cm
Calibration Constant	6.86	*Calibration Constant*	53.0 mS/cm
Calibration Constant	9.18	*Calibration Constant*	58.7 mS/cm
Last Calibration (time)		*Last Verification √ (time)*	

Monitoring Well Information

Well ID	02314 - MW-4	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	19.8	ft
Depth to Groundwater (nearest 0.01')	16.22	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

19.8

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DTP	DTW	Difference
16.12	16.22	0.10

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9E
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	5/13/2016
Field Personnel	BS
General Weather	Clear
Ambient Air Temperature	70°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-13	
Testing Parameters	Gauge Well Only	
Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	16.78	ft
Length of Water Column	3.52	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DTP	DTW	Difference
16.50	16.78	0.28

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9E
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	5T13 /2016
Field Personnel	BS
General Weather	Clear
Ambient Air Temperature	70

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - RW-1	
Testing Parameters	Gauge Well Only	
Well Diameter	4	in
Screened Interval	10 - 30	ft
Total Well Depth (nearest 0.1')	30.0	ft
Depth to Groundwater (nearest 0.01')	16.73	ft
Length of Water Column	13.27	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.0

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	↓
-other comments	

Additional Comments

DTP	DTW	Difference
16.57	16.73	0.16

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9E
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	5/13/2016
Field Personnel	BS
General Weather	Clear
Ambient Air Temperature	78

Monitoring Well Information

Well ID	02314 - RW-2
Testing Parameters	Gauge Well Only

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	30.0	ft
Depth to Groundwater (nearest 0.01')	16.08	ft
Length of Water Column	13.92	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.0

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe? Yes
-other comments

Additional Comments

DTP 15.96 | DTW 16.08 | Difference 0.12

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Tenny Environmental
Windsor Mill 21244

Phone (410) 433 6868

P O #:

3. Agent of Generator and Mailing Address:
Tenny Environmental
PO Box 25 Summerville SC

Phone (843) 873 8200

P O #:

4. Transporter Company Name: Goodsell Transport
511 Old Mt. Holly Rd
Goose Creek, SC

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	~~4,700~~ 5,020 gals

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: Brian Spillane Signature: Date: 4/26/14

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Donald Jones Signature: Donald Jones Date: 4/26/14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Butler Dyon Signature: Date 04/26/2014

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12338

86252681
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 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.©

WEIGHMYTRU
WEIGH

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:

1) 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.catscaleguaran for instructions.
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.

DATE: 4-26-2016

1130 SCALE

86252681 LOCATION:
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

947
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	11160 lb
DRIVE AXLE	15680 lb
TRAILER AXLE	10580 lb
* GROSS WEIGHT	37420 lb

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 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

COMPANY: GOODSELL TRANSPORT TRACTOR #: 03 TRAILER #: 101

EIGH NUMBER
2681

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: Tamika Coe

TAMIKA COE

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg

86252689
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6253
www.catscale.com

THE CAT SCALE GUARANTEE

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WEIGHMYTRU
WEIG

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

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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: 4-26-2016

1411 SCALE
86252689 LOCATION:
947
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10920 lb
DRIVE AXLE	34620 lb
TRAILER AXLE	33700 lb
*GROSS WEIGHT	79240 lb

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 t accuracy of the weight shown as prescribed by law.

41,820 - net = 5,020 gals

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR: 03 TRAILER #: 101

WEIGH NUMBER: 2681

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: Tamika Coe

TAMIKA COE

FULL WEIGH TICKET # (IF REWEIGH): 8625

CUSTOMER COPY

© CAT Scale® Re

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Terry Environmental
Wilson Mart, Chenaw, SC

Phone (908) 433 6868
P O #: Z1719E

3. Agent of Generator and Mailing Address:
Terry Environmental
PO Box 25 Summerville SC

Phone ( )
P O #:

4. Transporter Company Name: Goodsell Transport
511 Old Mt Holly Rd
Goose Creek, SC

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gals	4,910

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: Brian Spillane Signature: Date: 4/27/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Donald Jones Signature: Donald Jones Date: 4/27/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Signature: Date 04/27/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12339

86252711
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 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.®

WEIGHMYTRU
WEIG

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:

1) 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.catscaleguaran for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number t CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are seperate 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

1152 SCALE 947

86252711 LOCATION:
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10900 lb
DRIVE AXLE	15580 lb
TRAILER AXLE	10660 lb
* GROSS WEIGHT	37140 lb

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 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

COMPANY: GOODSELL TRANSPORT TRACTOR: 03 TRAILER: 101

IGH NUMBER
7 1 1

FEE $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: TAMIKA COE

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg

86252716
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 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.©

WEIGHMYTRU
WEIGH

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:

1) 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.catscaleguarant for instructions.
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.

DATE: 4-27-2016

1423 SCALE 947
86252716 LOCATION: TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10900 lb
DRIVE AXLE	33740 lb
TRAILER AXLE	33400 lb
* GROSS WEIGHT	78040 lb

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.

IMPRINT SEAL HERE (IF APPLICABLE)

49,900 lbs NET 4910 gals

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR: 03 TRAILER: 101

WEIGH NUMBER
2711

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: BARBARA FULLARD

FULL WEIGH TICKET # 862527
(IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):
   Waste ID Number:

2. Generator's Name and Mailing Address: 2171.9E
   Tucker Oil
   Water Mart, Cheraw, SC
   Permit #02314
   Phone ( )
   P O #:

3. Agent of Generator and Mailing Address:
   Terry Environmental
   PO Box 25 Summerville SC 29484
   Phone (843) 873 8200
   P O #: 2171.9E

4. Transporter Company Name: Goodsell Services
   511 Old Mt Holly Rd
   Goose Creek SC 29445
   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

   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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	G<1	5222

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: Brian Spilkne Signature: Date: 4/27/16

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Daniel Krasman Signature: Date: 4/27/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: David Ward Signature: Date 4-27-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13453

84512541
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

1007
84512541

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 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.

WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE!

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.
2) 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.
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.

DATE: 4-27-2016

SCALE LOCATION: 381
PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

STEER AXLE	11700 lb
DRIVE AXLE	13980 lb
TRAILER AXLE	9960 lb
GROSS WEIGHT	35640 lb

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 SELL TRACTOR #: 94 TRAILER #: 103

WEIGH NUMBER: 2514

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: NEIL WHITE

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

84512547
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

1244
84512547

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

THE CAT SCALE GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY®

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(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.

WEIGHMYTRUCK.C
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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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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: 4-27-2016

SCALE LOCATION: 381
PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

STEER AXLE	12100 lb
DRIVE AXLE	35840 lb
TRAILER AXLE	31200 lb
GROSS WEIGHT*	79140 lb

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.

43,580 net = 5,222G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOOD SELL — TRACTOR #: 04 — TRAILER #: 103

WEIGH NUMBER: 2541

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: NEIL WHITE

FULL WEIGH TICKET # (IF REWEIGH): 84512541

CUSTOMER COPY

© CAT Scale® Reg 3056 07/18

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):
Waste ID Number:

2. Generator's Name and Mailing Address: Terry Eno.
Winsor Mart 2 Phone (803) 3189470
PO #: Montgomery
Cheraw, SC

3. Agent of Generator and Mailing Address:
Terry Environmental
Summerville SC
Phone ( )
PO #:

4. Transporter Company Name: Goodsell Transport
511 Old Mt Holly Rd
Goose Creek, SC
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	4,465

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: Montgomery Taylor Signature: Date: 4/25/14

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Donald Jones Signature: Date: 4/25/14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: Signature: Date 04/25/14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12340

86252734
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 GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY®

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WEIGHMYTRUCK.C
WEIGH US
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PHO

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.
2) 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.
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.

DATE: 4-28-2016

1316 SCALE 947

86252734 LOCATION:
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	11460 lb
DRIVE AXLE	15840 lb
TRAILER AXLE	10580 lb
* GROSS WEIGHT	37880 lb

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 facie 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

COMPANY: GOOD SELL TRACTOR: 03 TRAILER: 101

IGH NUMBER
2734

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: TAMMIE GONZALEZ

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3055 07/1

86252740
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 GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY®

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WEIGH US
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PHO

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.cor for instructions.
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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: 4-28-2016

1550
86252740 LOCATION:
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

SCALE 947

TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	11260 lb
DRIVE AXLE	33400 lb
TRAILER AXLE	32080 lb
*GROSS WEIGHT	76740 lb

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.

38,860 lbs NET 4,645 gals

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY GOOD SELL TRACTOR 03 TRAILER 101

IGH NUMBER
2734

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE

TAMIKA COE

FULL WEIGH TICKET # 86252734 (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3050 07/

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

Terry Environmental
Winnsboro Mart 291 9E
Cheraw, SC

Phone (803) 316-7470

P O #: Montgomery

3. Agent of Generator and Mailing Address:

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

Phone ( )

P O #:

4. Transporter Company Name:

Goodsell Transport

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	105	VT	Gal	5142

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: M. Montgomery Terry | Signature: | Date: 4-27-16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: Todd Brown | Date: 4-29-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Walt Lee | Signature: Walt Lee | Date 04/29/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12531

86252749
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 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.®

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WEIGH USI
YO
PHO

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:

1) 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 for instructions.
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.

DATE: 4-29-2016

813
SCALE 947
86252749 LOCATION: TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10260 lb
DRIVE AXLE	15440 lb
TRAILER AXLE	12060 lb
* GROSS WEIGHT	37760 lb

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

COMPANY: GOODSELL TRANSPORT TRACTOR: 05 TRAILER: 105

IGH NUMBER
2749

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: NC
NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3005 07/1

86252750
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 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.®

WEIGHMYTRU
WEIGH

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:

1) 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.catscaleguarant for instructions.
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.

DATE: 4-29-2016

1112
SCALE 947
86252750 LOCATION: TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10680 lb
DRIVE AXLE	35960 lb
TRAILER AXLE	33960 lb
*GROSS WEIGHT	80600 lb

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 th accuracy of the weight shown as prescribed by law.

42,840 net = 5,142 G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY GOODSELL TRANSPORT TRACTOR 105 TRAILER 105

IGH NUMBER
750

FEE $10.50

WEIGHMASTER OR WEIGHER SIGNATURE NC
NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

Corner Mart
Cheraw SC

Phone ( )

P O #:

3. Agent of Generator and Mailing Address:

Terry Environmental
Summerville SC

Phone ( )

P O #:

4. Transporter Company Name:

Goodsell Transport

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	105	VT	Gal	2758

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: Date:

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown Signature: Todd Brown Date: 4-29-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Walker Signature: Walker Date 04/29/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

12532

86252765
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6283
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 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.

WEIGHMYTRUCK.C
WEIGH US
YO
PHO

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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2) 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.
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.

DATE: 4-29-2016

1626 SCALE

86252765 LOCATION: 947

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	10420 lb
DRIVE AXLE	15560 lb
TRAILER AXLE	12040 lb
* GROSS WEIGHT	38020 lb

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

COMPANY: GOOD SELL

TRACTOR: 05 TRAILER: 105

HIGH NUMBER
7765

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: GREGORY MCPHERSO

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3068 07/15

86252766
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

1849
86252766
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

IGH NUMBER
2765

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.©

WEIGHMYTRUCK.COM
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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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* 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

SCALE 947

LOCATION: TRAVELCENTERS OF AMERICA I95
I-95 EXIT 164
FLORENCE SC

STEER AXLE	10460	lb
DRIVE AXLE	26320	lb
TRAILER AXLE	24220	lb
* GROSS WEIGHT	61000	lb

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.

22,980 net = 2,758G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOOD SELL

TRACTOR: 05

TRAILER: 105

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: GREGORY MCPHERSO

FULL WEIGH TICKET # (IF REWEIGH): 86252765

© CAT Scale® Reg 3055 07/15

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

Contractor Checklist – Windsor Mart

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		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 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) - 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.

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

UST 22 week DOCKETING

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 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) 898-0607or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

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					
		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 Amount		35,855 96

Reply | Delete Junk | ••• ✕

Re: Follow up - Windsor Mart (Permit #02314)

Thrash, Ashleigh
Tue 6/14/2016 2:52 PM
To: kcone@terryenvironmental.com

Reply |

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 [x] CD [ ] Email

Date Received 7/29/2016

Permit Number 02314

Project Manager Ashleigh Thrash

Name of Contractor Terry Environmental

UST Certification Number

Docket Number 24 teen

Scanned

Description APVR + Gauging 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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

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	--

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 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

Date:	June 27 - July 1, 2016	**Average Depth to Groundwater:**	15-17 ft.
Site Name:	Windsor Mart	**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314	**Vacuum Contractor:**	TERRY Environmental Services, Inc.
Well ID #:	MW-4, RW-1, & 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							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{inf}	PPM_{eff}	Reduction	Elapsed time	Flow	PPM_i	PPM_e	K	C_{inf}	C_e	PMR_i	PMR_e	PMR_t
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dm^3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
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	0.06
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	0.07
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	0.07
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	0.06
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	0.03
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	0.03
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	0.04
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	0.03
6/27/2016	19:30	22.0	1,355	3	158.0	36.0	216	36.3	83	390	51.82	236.76	947.06	4	472.55	2.950E-05	0.09	0.11	0.02
6/27/2016	20:00	22.0	1,321	3	158.0	35.7	381	50.9	87	420	50.52	417.63	1670.51	4	833.52	5.204E-05	0.16	0.18	0.03
6/27/2016	20:30	22.0	1,315	3	158.0	33.4	376	55.0	85	450	50.29	412.15	1648.58	4	822.58	5.135E-05	0.15	0.18	0.03
6/27/2016	21:00	22.0	1,398	3	158.0	32.5	244	38.3	84	480	53.46	267.46	1069.83	4	533.80	3.333E-05	0.11	0.12	0.02
6/27/2016	22:00	22.0	1,409	3	155.0	28.3	335	48.7	85	540	54.14	367.20	1468.82	4	732.88	4.575E-05	0.15	0.17	0.03
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	0.18	0.20	0.03
6/28/2016	0:00	22.0	1,427	3	154.0	29.5	366	52.6	86	660	54.93	401.18	1604.74	4	800.70	4.999E-05	0.16	0.19	0.03
6/28/2016	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	0.03
6/28/2016	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	0.03
6/28/2016	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	0.02
6/28/2016	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	0.02
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	0.02
6/28/2016	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	0.02
6/28/2016	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	0.03
6/28/2016	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	0.02
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	0.02
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	0.02
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	0.03
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	0.03
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	3.009E-05	0.10	0.11	0.02
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	0.02
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	0.02
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	0.02
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	0.03
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	0.03
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	0.02
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	0.02
6/30/2016	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	0.03
6/30/2016	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	0.02
6/30/2016	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	0.02
6/30/2016	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	0.02
6/30/2016	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	0.02
6/30/2016	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	0.03
6/30/2016	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	0.03
6/30/2016	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	0.02
6/30/2016	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	0.02
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	0.02
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	0.02
7/1/2016	10:00	22.0	1,408	3	158.0	33.9	244	38.6	84	5580	53.84	267.46	1069.83	4	533.80	3.333E-05	0.11	0.12	0.02
7/1/2016	12:00	22.0	1,437	3	158.0	30.3	252	40.2	84	5700	54.95	276.23	1104.90	4	551.30	3.442E-05	0.11	0.13	0.02
7/1/2016	13:00	22.0	1,386	3	158.0	27.8	260	42.9	84	5760	53.00	284.99	1139.98	4	568.81	3.551E-05	0.11	0.13	0.02
Average		21.8	1323.2	3.0	154.8	32.8	476	70	84		50.86	521.66	2086.63	4	1041.15	6.500E-05	0.20	0.23	0.04
Bws =	0.088	Bwsv:	0.06																

Total Pounds of Carbon Recovered as Emissions: 19.04
Total Pounds of Gasoline Vapor Recovered as Emissions: 22.03
Total Gallons of Gasoline Recovered as Emissions: 3.53
(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 5-7, 2016			**Average Depth to Groundwater:**	14-16 ft.
Site Name:	Windsor Mart			**Describe Soil in Saturated Zone:**	Sandy Silt
SCDHEC Site ID #:	02314			**Vacuum Contractor:**	TERRY Environmental Services, Inc.
Well ID #:	MW-13	**Blower Specification of the Vacuum Truck (CFM @ Hg):**		282 CFM @ 25" Hg	

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd) | **EMISSION CALCULATION**

		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{pre}	PPM_{post}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm^3)	(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	26.8	321	57.0	82	1560	39.24	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	59.0	83	1680	40.04	380.36	1521.43	4	759.14	4.739E-05	0.11	0.13	0.02
7/6/2016	21:00	20.0	1,112	3	158.0	24.6	362	63.0	83	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	4	684.75	4.275E-05	0.11	0.13	0.02
7/7/2016	0:00	20.0	1,135	3	158.0	28.2	241	46.0	81	1980	43.40	264.17	1056.67	4	527.24	3.292E-05	0.09	0.10	0.02
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	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	86	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	85	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	158.0	27.2	327	49.0	85	2880	40.04	358.44	1433.74	4	715.38	4.466E-05	0.11	0.12	0.02
Average		20.4	1068	3.0	155.1	26.0	306	52	83		41.02	334.87	1339.48	4	668.35	4.172E-05	0.10	0.12	0.02
Bws =	0.088	Bwsw:	0.06																

Total Pounds of Carbon Recovered as Emissions: 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ 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/K_3)

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 Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger 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	20.0	10	20.0	10	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	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

Well #	MW-1		Well #	MW-2R		Well #	MW-8	
Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in 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	--	1.5	0.1	--	1.5	0.0	--
2	1.2	16.49	2	0.2	16.28	2	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	--	3.5	0.3	--	3.5	0.0	--
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	--	5.5	0.4	--	5.5	0.0	--
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	--	7.5	0.2	--	7.5	0.0	--
8	1.7	16.59	8	0.2	16.39	8	0.0	16.40
9	1.7	--	9	0.2	--	9	0.0	--
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	32	0.2	16.57	32	0.0	16.50
34	1.7	16.65	34	0.2	16.58	34	0.0	16.51
35	1.7	16.65	35	0.2	16.60	35	0.0	16.51
43	1.7	16.68	43	0.2	16.65	43	0.0	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	49	0.2	16.67	49	0.0	16.59
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	16.71	55	0.2	16.68	55	0.0	16.60
57	1.7	16.72	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	16.76	67	0.2	16.70	67	0.0	16.58
69	1.7	16.76	69	0.2	16.72	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	16.73	73	0.0	16.61
75	1.7	16.77	75	0.2	16.73	75	0.0	16.62
77	1.7	16.78	77	0.2	16.75	77	0.0	16.62
79	1.7	16.79	79	0.2	16.75	79	0.0	16.64
81	1.7	16.80	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	16.80	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

*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 #	MW-4		Well #	MW-14		Well #	MW-20	
Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to 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

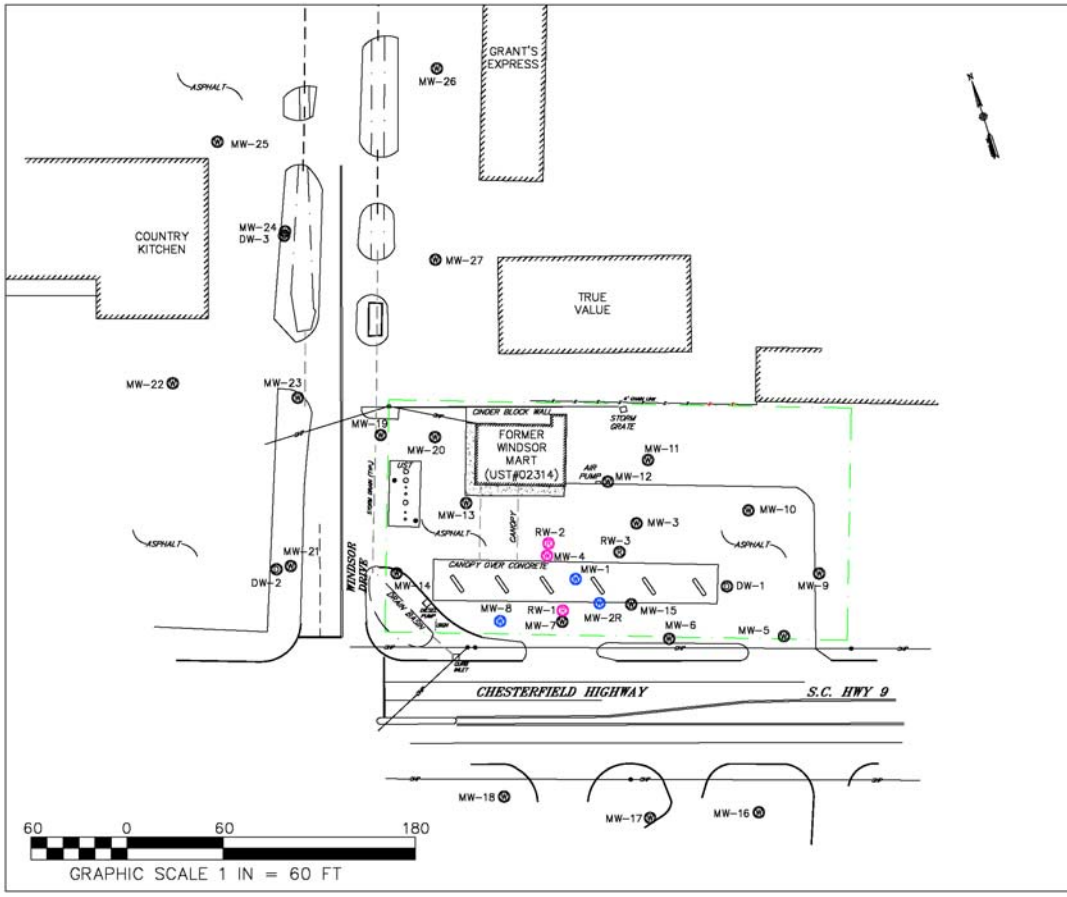
Well #	--	Depth to Product	Depth to Water	Product Thickness
MW-4	Initial	15.88	15.98	0.10
	Final	n/a	19.01	n/a
RW-1	Initial	16.45	16.57	0.12
	Final	n/a	19.65	n/a
RW-2	Initial	15.62	15.70	0.08
	Final	n/a	19.22	n/a
MW-1	Initial	n/a	16.16	n/a
	Final	n/a	16.86	n/a
MW-2R	Initial	n/a	16.20	n/a
	Final	n/a	16.81	n/a
MW-8	Initial	n/a	16.15	n/a
	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
JULY 5-7, 2016

Well #	--	Depth to Product	Depth to Water	Product Thickness
MW-13	Initial	14.89	15.03	0.14
	Final	n/a	15.21	n/a
MW-4	Initial	n/a	15.46	n/a
	Final	n/a	15.22	n/a
MW-14	Initial	n/a	15.10	n/a
	Final	n/a	14.90	n/a
MW-20	Initial	n/a	14.21	n/a
	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	--



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

TERRY ENVIRONMENTAL SERVICES
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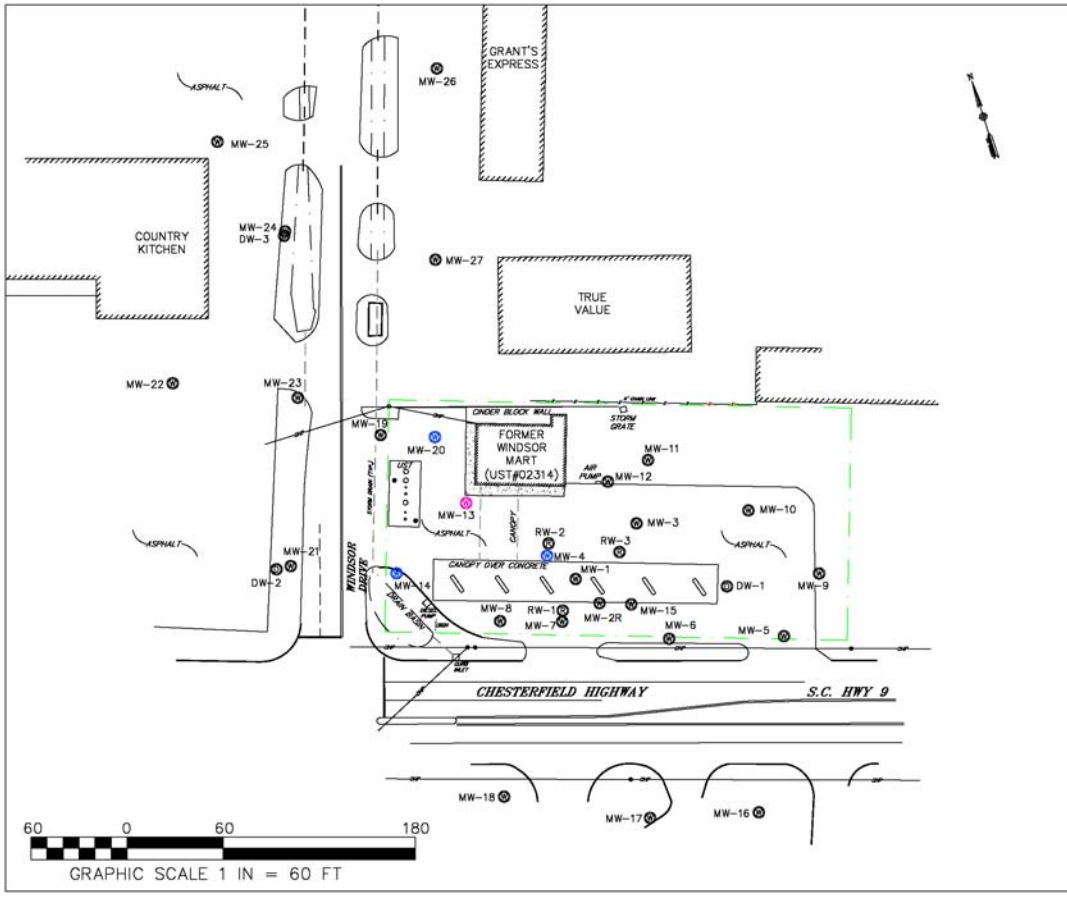
FIGURE F-8
AFVR MAP (EVENT 1)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9F	02314
SCALE 1" = 60'	DATE July 2016



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
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- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

TERRY ENVIRONMENTAL SERVICES
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FIGURE F-8
AFVR MAP (EVENT 2)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9F	02314
SCALE 1" = 60'	DATE July 2016

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

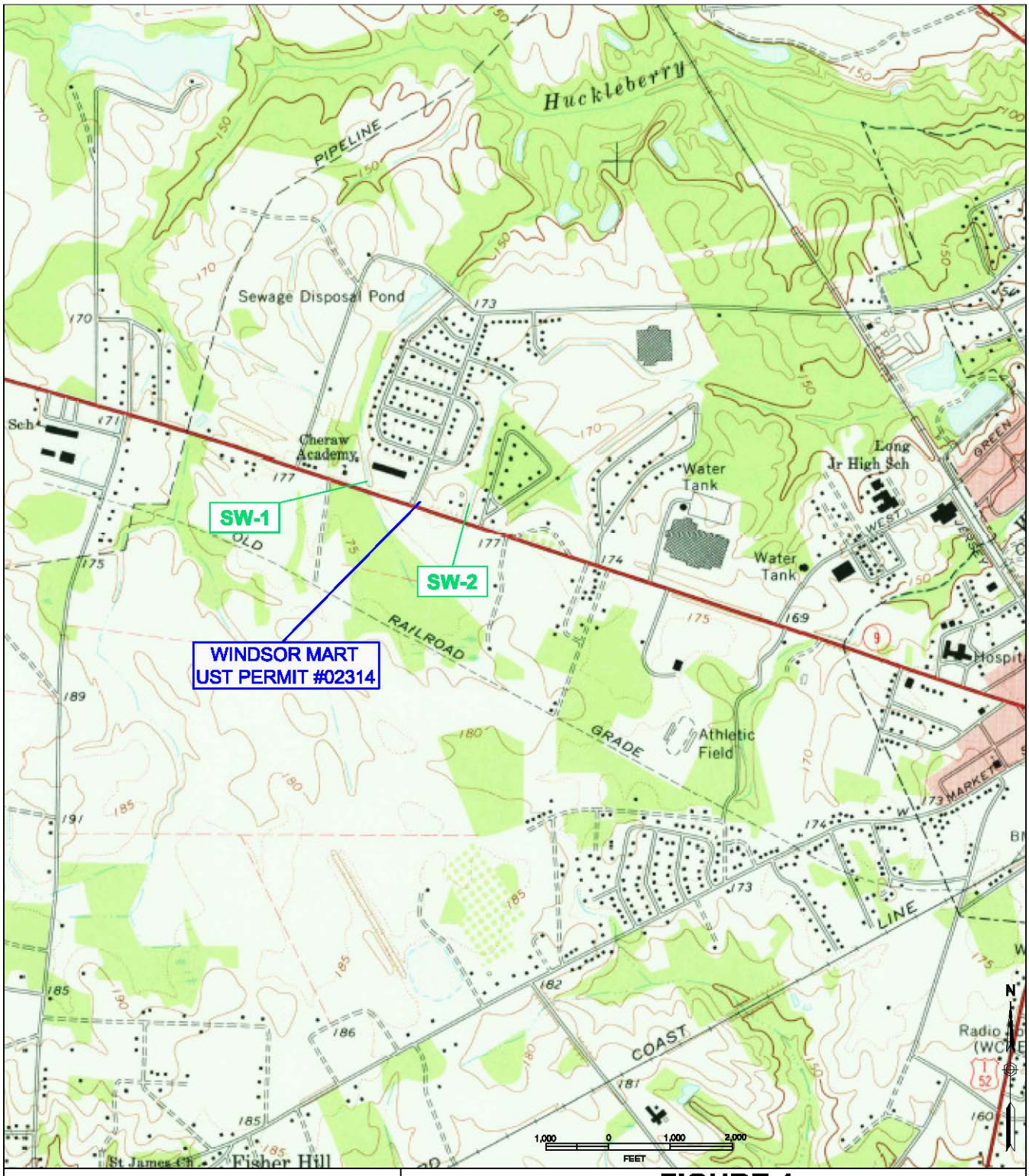

FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
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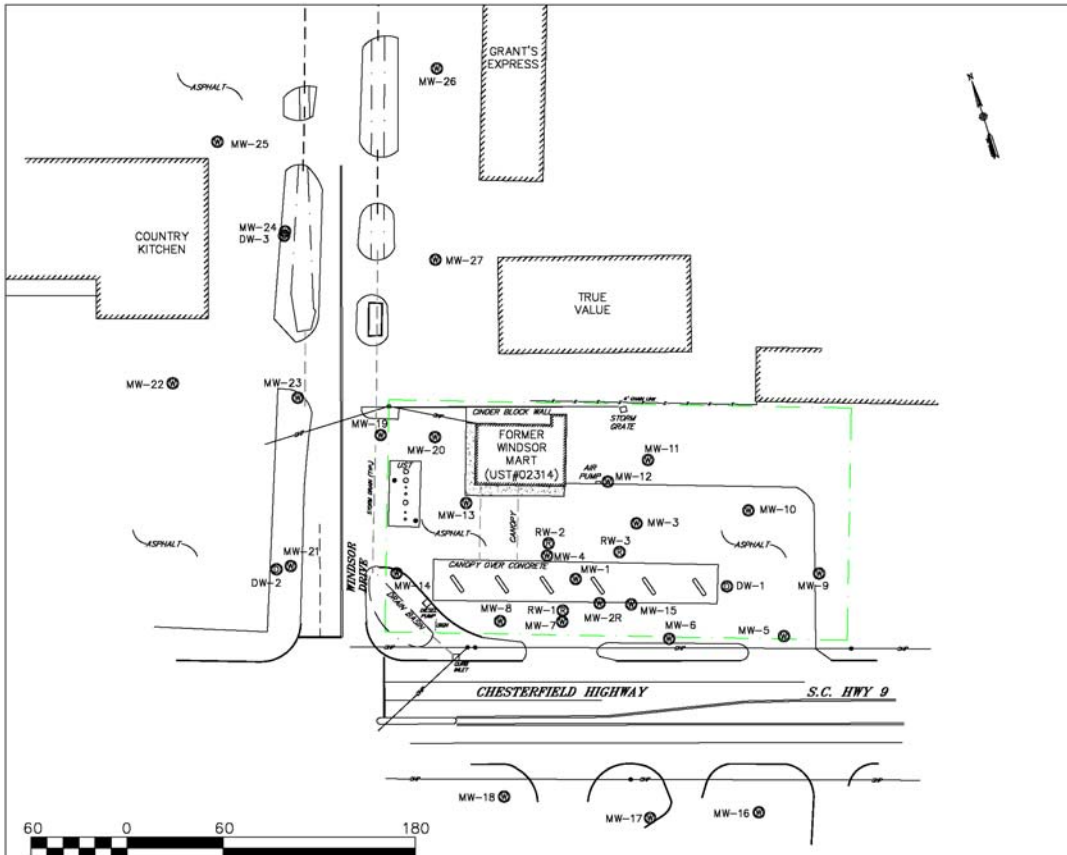
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-9765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9F	Figure 1 Topo Map	

SCALE: As Shown

DATE: July 2016



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

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FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9F	02314
SCALE 1" = 60'	DATE July 2016

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

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9F
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7/22/2016
Field Personnel	L. Plumb
General Weather	clear
Ambient Air Temperature	90°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-1	
Testing Parameters	Gauge Well Only	
Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)						
Time (military)						
pH (su)						
Spec Conductivity (mS/cm)						
Water Temperature (°C)						
Turbidity (NTU)						
Dissolved Oxygen (mg/L)						

No Sample : Free product

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DTP	DTW	Thickness of Product	TWD
13.42	13.44	0.02	20.3

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9F
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7/22/2016
Field Personnel	L. Plumb
General Weather	Clear
Ambient Air Temperature	90.

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-2R	
Testing Parameters	Gauge Well Only	
Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')	19.8	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)						No Sample - Free product					
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DTP	DTW	Thickness of Product	TWD
~	13.49	~	19.8

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9F
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7 /22 /2016
Field Personnel	L. Plumb
General Weather	clear
Ambient Air Temperature	90

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-3	
Testing Parameters	Gauge Well Only	
Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')	19.9	ft
Depth to Groundwater (nearest 0.01')	~~[illegible]~~ 11.12	ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)					
Time (military)					
pH (su)					
Spec Conductivity (mS/cm)					
Water Temperature (°C)					
Turbidity (NTU)					
Dissolved Oxygen (mg/L)					

No Sample: Free Product

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

DTP	DTW	Thickness of product	DTMW
—	11.12	—	19.9

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9F
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7 / 22 /2016
Field Personnel	L. Plumb
General Weather	clear
Ambient Air Temperature	90.

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-4		
Testing Parameters	Gauge Well Only		
Well Diameter		in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')	20.0	ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield Low ☐ Medium ☐ High ☐			

Volume (gal)					
Time (military)					
pH (su)					
Spec Conductivity (mS/cm)					
Water Temperature (°C)					
Turbidity (NTU)					
Dissolved Oxygen (mg/L)					

No Sample. Free Product

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

DTP	DTW	Thickness of Product	TWD
12.88	12.92	0.04	20.0

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9F
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7 / 22/2016
Field Personnel	L. Plumb
General Weather	clear
Ambient Air Temperature	90

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-13	
Testing Parameters	Gauge Well Only	
Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')	20.1	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)					
Time (military)					
pH (su)					
Spec Conductivity (mS/cm)					
Water Temperature (°C)					
Turbidity (NTU)					
Dissolved Oxygen (mg/L)					

No Sample : Free product

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

DTP	DTW	Thickness of product	TWD
/	12.15	/	20.1

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information	
Terry Project ID	2171.9F
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7/22/2016
Field Personnel	L. Plumb
General Weather	clear
Ambient Air Temperature	90°

Quality Assurance			
pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information			
Well ID	02314 - RW 1		
Testing Parameters	Gauge Well Only		
Well Diameter		in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')	29.5	ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

No Sample: Free Product

Well Condition Information	
-overall condition acceptable?	
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DTP	DTW	Thickness of product	TWD
13.56	13.75	0.19	29.5

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9F
SCDHEC Permit No.	02314
Project Name	Windsor Mart
Date	7/22/2016
Field Personnel	L. Plumb
General Weather	clear
Ambient Air Temperature	90

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)		Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - RW-2	
Testing Parameters	Gauge Well Only	
Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')	29.8	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)				
Time (military)				
pH (su)				
Spec Conductivity (mS/cm)				
Water Temperature (°C)				
Turbidity (NTU)				
Dissolved Oxygen (mg/L)				

No Sample. Free Product

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments _____

Additional Comments

DTP	DTW	Thickness of Product	TWD
/	12.87	/	29.8

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

Jennings Kerr 043-260-5043

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart | Phone ( )
820 Chesterfield Hwy
Cheraw SC | P O #:

3. Agent of Generator and Mailing Address: Terry Environmental Services | Phone ( )
1753 N. Main St Summerville, SC | P O #:

4. Transporter Company Name: Gaudell Transport | Phone ( )
511 Old Mt Holly Rd Goose Creek, SC
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	4,735

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: Jennings Kerr As Agent | Signature: Jennings Kerr | Date: 6/28/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Donald Jones | Signature: Donald Jones | Date: 6/28/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Suzanne Goodell | Signature: Suzanne Goodell | Date 6/29/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13668

90573655

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 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.®

WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE!

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:

1) 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 for instructions.
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.

DATE: 6-24-2016

1043 SCALE

90573655 LOCATION:
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

947
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	11500 lb
DRIVE AXLE	15940 lb
TRAILER AXLE	10740 lb
* GROSS WEIGHT	38180 lb

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

COMPANY: GOODSELL TRANSPORT TRACTOR #: 03 TRAILER #: 101

WEIGH NUMBER 3655

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: NC

NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3385 07/15

90573658

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 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.©

WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE

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:

1) 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 for instructions.
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

DATE: 6-28-2016

1319 SCALE

90573658 LOCATION:
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

947
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	11340 lb
DRIVE AXLE	33560 lb
TRAILER AXLE	32720 lb
* GROSS WEIGHT	77620 lb

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)

Net wght 39,480 = 4,935

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR #: 03 TRAILER #: 101

WEIGH NUMBER 3655

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: NC

NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH): ~~90573655~~

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable) — Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
820 Chesterfield Hwy
Cheraw, SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental Services
1753 W. Main St
Summerville, SC
Phone ( )
P O #:

4. Transporter Company Name: Goodsell Transport
511 Old Mt Holly Rd
Goose Creek SC
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	UT	gals	4,461

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: Jennings Kerr Assistant — Signature: [signature] — Date: 6/29/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Donald Jones — Signature: Donald Jones — Date: 6/29/14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Sabonne Goodsell — Signature: [signature] — Date: 6/29/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13669

90864404

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 GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY®

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WEIGHMYTRUCK.COM
WEIGH USING
YOUR
PHONE

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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: 6-30-2016

735
90864404 SCALE LOCATION: 893
PILOT
I 26 EXIT 199
SUMMERVILLE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10960 lb
DRIVE AXLE	15740 lb
TRAILER AXLE	10640 lb
* GROSS WEIGHT	37340 lb

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

COMPANY: GOODSELL TRANS TRACTOR #: 03 TRAILER #: 101

WEIGH NUMBER 4382

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: CHEETARA WILSON

FULL WEIGH TICKET # (IF REWEIGH): 90864382

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

90864382

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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YOUR
PHONE

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DATE: 6-29-2016

1716
90864382 SCALE LOCATION:
893
PILOT
I 26 EXIT 199
SUMMERVILLE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11100 lb
DRIVE AXLE	32380 lb
TRAILER AXLE	31020 lb
* GROSS WEIGHT	74500 lb

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)

37,160 net weight =
4461 gals

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANS

TRACTOR #: 03

TRAILER #: 101

WEIGH NUMBER
4382

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: MANDY ANTHONY

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3060 07/16

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):
Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart P# 2171.9F
Cheraw, SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental Servicer
P.O. Box 25 Summerville, SC
Phone ( )
P O #:

4. Transporter Company Name:
Goodsell Transport
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	105	VT	Gal	4653

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: *Jennings Kerr As Agt* Signature: *Jennings Kerr* Date: *6-30-16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown Signature: Todd Brown Date: 6-30-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Sabrina Goodall Signature: Sabrina Goodall Date 6-30-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14468

86251967
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 GUARANTEE

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PHONE

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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: 6-30-2016

855
86251967 SCALE
947

LOCATION:
TRAVELCENTERS OF AMERICA-185
I-95 EXIT 164
FLORENCE SC

STEER AXLE	10340 lb
DRIVE AXLE	15700 lb
	12040 lb
* GROSS WEIGHT	38080 lb

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.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT

TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER
1967

FEE $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: NC
NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3058 07/15

86251968
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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WEIGH USING YOUR PHONE!

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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: 6-30-2016

1151 SCALE 947
86251968 LOCATION: TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10460 lb
DRIVE AXLE	34020 lb
TRAILER AXLE	32360 lb
* GROSS WEIGHT	76840 lb

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-
41,053G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER 1967

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH): 86251967

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Corner Cupboard
Cheraw SC

Phone ( )

P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental

Phone ( )

P O #:

4. Transporter Company Name:
Goodsell Transport

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	105	UT	Gal	4612

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Printed/Typed Name: | Signature: | Date:

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: Todd Brown | Date: 7-5-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Donna Goodsell | Signature: Donna Goodsell | Date 7-5-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14462

86252014
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6283
www.catscale.com

THE CAT SCALE GUARANTEE

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PHONE

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DATE: 7-05-2016

909
86252014 SCALE
947
LOCATION: TRAVELCENTERS OF AMERICA I-95
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10560 lb
DRIVE AXLE	16000 lb
	12500 lb
* GROSS WEIGHT	39060 lb

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IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER 2014

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: NC
NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

86252017
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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DATE: 7-05-2016

1147 SCALE
86252017 LOCATION: 947
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	10680	lb
DRIVE AXLE	34320	lb
TRAILER AXLE	32480	lb
* GROSS WEIGHT	77480	lb

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 = 41,612 G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER 2014

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: NC
NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH): 86252014

CUSTOMER COPY

© CAT Scale® Reg 3085 07/15

US Water Recovery

843-754-4450

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: | Phone ( )

820 Chesterfield Hwy
Cheraw SC

PO #:

3. Agent of Generator and Mailing Address: Terra Env. Services | Phone ( )

1753 N. Main St
Summerville, SC 29483

PO #:

4. Transporter Company Name: Goodsell Transport | Phone ( )

511 Old Mt Holly Rd

Truck & Trailer License Number: Goose Creek, SC 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	4547

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: LYall Plumb | Signature: LyallPlumb | Date: 7/6/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Donald Jones | Signature: Donald Jones | Date: 7/6/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Salonna Goodsell | Signature: Salonna Goodsell | Date: 7/6/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13673

91204604

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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DATE: 7-06-2016

STEER AXLE	11080 lb
DRIVE AXLE	15660 lb
TRAILER AXLE	10660 lb
* GROSS WEIGHT	37400 lb

1010 **SCALE**
91204604 **LOCATION:** 381
PILOT TRAVEL CENTER
1-95 AND I-52 EXIT 164
FLORENCE SC

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.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GODSELL TRANSPORT TRACTOR #: 3 TRAILER #: 101

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: C. Cooper

CANDYCE COOPER

FULL WEIGH TICKET # (IF REWEIGH):

WEIGH NUMBER 4504

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

86252037
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 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.©

WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE!

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:

1) 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 for instructions.
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.

DATE: 7-06-2016

1328 SCALE
86252037 LOCATION:
947
TRAVELCENTERS OF AMERICA I95
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10900 lb
DRIVE AXLE	32740 lb
TRAILER AXLE	31640 lb
*GROSS WEIGHT	75280 lb

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)

37,880 NET =
4547

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY GOODSELL TRANSPORT TRACTOR # 03 TRAILER # 101

WEIGH NUMBER 2037

FEE $10.50

WEIGHMASTER OR WEIGHER SIGNATURE NC
NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3655 07/15

US Water Recovery

843-759-4450

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Corner Cupboard
820 Chesterfield HWY
Cheraw SC 29520
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
Terry Envir
Phone ( )
P O #:

4. Transporter Company Name:
Goodsell Transport
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	105	VT	Gal	4696

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: Lyall Plumb | Signature: Lyall Plumb | Date: 7-6-16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown | Signature: Todd Brown | Date: 7-6-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Sabina Goodsell | Signature: Sabina Goodsell | Date 7-6-16

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

14460

10943988

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
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WEIGHMYTRUCK.CO
WEIGH USIN
YOU
PHON

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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2) 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.
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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

1158

10943988

SCALE: 87

LOCATION: T/A MANNING
I 95 EXIT 119
MANNING SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10340 lb
DRIVE AXLE	34540 lb
TRAILER AXLE	32740 lb
* GROSS WEIGHT	77620 lb

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.

39,120 net-
4,696G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOOD SELL TRANSPORT

TRACTOR #: 305 TRAILER #: 105

WEIGH NUMBER 3988

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: TAKYIA WITHERSPO

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3059 07/16

86252035
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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WEIGHMYTRUCK.CO
WEIGH USIN
YOU
PHON

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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	10380 lb
DRIVE AXLE	15760 lb
TRAILER AXLE	12360 lb
* GROSS WEIGHT	38500 lb

849
86252035
SCALE 947
LOCATION: TRAVELCENTERS OF AMER
I-95 EXIT 164
FLORENCE SC

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.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER 2014

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: NC
NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH): 86252014

CUSTOMER COPY

© CAT Scale® Reg 3085 07/15

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: | Phone ( )
820 Chesterfield Hwy
Cheraw, SC
P O #:

3. Agent of Generator and Mailing Address: Terry Environmental | Phone ( )
1753 N. Main St
Summerville, SC
P O #:

4. Transporter Company Name: Goodsell Transport | Phone ( )
511 Old Mt Holly Rd
Goose Creek SC
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gals	3,407 G

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: | Date:

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Donald Jones | Signature: Donald Jones | Date: 7/7/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: Saionna Goodsell | Signature: | Date 7/7/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

13674

86252066
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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DATE: 7-07-2016

1633 SCALE

86252066 LOCATION: 947
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11260 lb
DRIVE AXLE	28500 lb
TRAILER AXLE	26540 lb
* GROSS WEIGHT	66300 lb

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 facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

28,380 net wght =
3,407 gals

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR #: 03 TRAILER #: 101

WEIGH NUMBER 2066

FEE: $10.50

WEIGHMASTER OR WEIGHER SIGNATURE: Alayshia W

ALAYSHIA W

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

86252058
TICKET NUMBER

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WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE

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CERTIFIED AUTOMATED TRUCK SCALE

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WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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DATE: 7-07-2016

SCALE 1327

LOCATION: 86252058
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

947
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	11480 lb
DRIVE AXLE	15780 lb
TRAILER AXLE	10660 lb
* GROSS WEIGHT	37920 lb

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

COMPANY: GOODSELL TRANSPORT TRACTOR #: 03 TRAILER #: 101

WEIGH NUMBER 2037

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: NC

NICKY CRAWFORD

FULL WEIGH TICKET # (IF REWEIGH): 86252037

CUSTOMER COPY

© CAT Scale® Reg 3665 07/16

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

Contractor Checklist – Windsor Mart

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?			X
21	Have the groundwater sampling dates and groundwater measurements been provided?			X
22	Has the purging methodology been detailed?			X
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?			X
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X
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.

dhec
Healthy People Healthy Communities

AUG 3 0 2016

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.

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 petroleum-contaminated 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
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 MNGT & 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 Amount		25,471.32

Document Receipt Information

☐ Hard Copy ☑ CD ☐ Email

Date Received 10-13-16

Permit Number 02314

Project Manager Read Mercer

Name of Contractor TES

UST Certification Number _____

Docket Number 26Tech

Scanned _____

AFVR

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

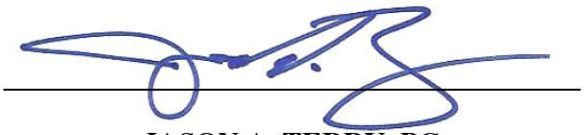
Submitted By:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

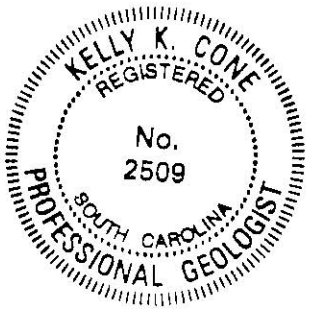
P.O. BOX 25
SUMMERVILLE, SOUTH CAROLINA 29484
(843) 873-8200
Fax (843) 873-8765
www.terryenvironmental.com

UST CONTRACTOR #UCC-0223
TERRY PROJECT #2171.9G

KELLY K. CONE, PG
Vice President, Assessment Services



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	--

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. 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

SECTION F-2A
AFVR EMISSIONS TABLE
WINDSOR MART
CHERAW, SOUTH CAROLINA
SCDHEC UST PERMIT #02314

Date:	September 26-30, 2016	**Average Depth to Groundwater:**	15-16 ft.
Site Name:	Windsor Mart	**Describe Soil In Saturated Zone:**	Silty Sand
SCDHEC Site ID #:	02314	**Vacuum Contractor:**	TERRY Environmental Services, LLC
Well ID #:	MW-1, MW-4, & RW-1	**Blower Specification of the Vacuum Truck (CFM @ Hg):**	282 CFM @ 25" Hg

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)												EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{avg}	PPM_{final}	Reduction	Elapsed time	Flow	PPM_d	PPM_t	K	C_{avg}	C_t	PMR_t	PMR_t	PMR_t
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm^3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
9/26/2016	14:00	21.0	382	3	93.7	65.7	325	7.2	98	0	16.30	355.80	1423.22	4	710.13	4.433E-05	0.04	0.05	0.01
9/26/2016	14:30	21.0	461	3	96.5	91.2	453	6.9	98	30	19.58	496.22	1984.88	4	990.38	6.183E-05	0.07	0.08	0.01
9/26/2016	15:00	22.0	548	3	99.9	90.8	681	7.8	99	60	23.05	746.91	2987.62	4	1490.71	9.306E-05	0.13	0.15	0.02
9/26/2016	15:30	23.0	575	3	104.2	95.4	899	12.4	99	90	24.09	985.10	3940.38	4	1966.10	1.227E-04	0.18	0.21	0.03
9/26/2016	16:00	23.0	597	3	104.9	95.4	1,016	13.7	99	120	24.98	1113.67	4454.69	4	2222.72	1.388E-04	0.21	0.24	0.04
9/26/2016	16:30	23.0	481	3	107.3	99.5	927	14.8	98	150	20.04	1015.57	4062.27	4	2026.92	1.265E-04	0.15	0.18	0.03
9/26/2016	17:00	23.0	537	3	111.6	99.5	935	20.2	98	180	22.20	1024.78	4099.10	4	2045.29	1.277E-04	0.17	0.20	0.03
9/26/2016	17:30	24.0	549	3	114.4	99.5	941	21.6	98	210	22.59	1031.79	4127.16	4	2059.29	1.286E-04	0.17	0.20	0.03
9/26/2016	18:00	24.0	556	3	114.2	99.5	938	22.8	98	240	22.88	1027.95	4111.82	4	2051.64	1.281E-04	0.18	0.20	0.03
9/26/2016	18:30	23.0	534	3	114.3	99.9	963	19.2	98	270	21.97	1055.58	4222.31	4	2106.77	1.315E-04	0.17	0.20	0.03
9/26/2016	19:00	23.0	550	3	114.8	99.9	975	15.6	98	300	22.61	1068.29	4273.17	4	2132.15	1.331E-04	0.18	0.21	0.03
9/26/2016	19:30	23.0	559	3	114.6	99.9	986	13.9	99	330	22.99	1081.01	4324.03	4	2157.52	1.347E-04	0.19	0.21	0.03
9/26/2016	20:00	23.0	547	3	114.7	99.9	989	14.5	99	360	22.49	1083.97	4335.87	4	2163.43	1.351E-04	0.18	0.21	0.03
9/26/2016	20:30	23.0	593	3	114.4	96.3	1,072	19.3	98	390	24.40	1175.06	4700.22	4	2345.23	1.464E-04	0.21	0.25	0.04
9/26/2016	21:00	23.0	684	3	115.6	94.2	1,034	21.2	98	420	28.08	1133.40	4533.61	4	2262.10	1.412E-04	0.24	0.28	0.04
9/26/2016	21:30	23.0	689	3	117.8	98.7	1,055	23.6	98	450	28.18	1156.42	4625.68	4	2308.04	1.441E-04	0.24	0.28	0.05
9/26/2016	22:00	23.0	732	3	118.0	98.5	1,052	23.2	98	480	29.93	1153.13	4612.53	4	2301.47	1.437E-04	0.26	0.30	0.05
9/26/2016	23:00	23.0	748	3	127.2	98.3	1,050	24.8	98	540	30.10	1150.94	4603.76	4	2297.10	1.434E-04	0.26	0.30	0.05
9/27/2016	0:00	23.0	755	3	123.4	98.8	1,068	25.1	98	600	30.58	1170.67	4682.68	4	2336.48	1.459E-04	0.27	0.31	0.05
9/27/2016	8:00	24.0	832	3	134.6	98.9	1,074	23.7	98	1080	33.07	1177.25	4708.99	4	2349.60	1.467E-04	0.29	0.34	0.05
9/27/2016	9:00	24.0	719	3	134.9	99.2	1,079	20.5	98	1140	28.56	1182.73	4730.91	4	2360.54	1.474E-04	0.25	0.29	0.05
9/27/2016	10:00	23.0	496	3	135.2	97.8	1,086	24.2	98	1200	19.69	1190.40	4761.60	4	2375.86	1.483E-04	0.18	0.20	0.03
9/27/2016	11:00	23.0	605	3	135.4	97.3	1,175	28.9	98	1260	24.01	1287.96	5151.83	4	2570.56	1.605E-04	0.23	0.27	0.04
9/27/2016	12:00	23.0	627	3	120.8	99.9	1,198	53.7	96	1320	25.51	1313.17	5252.67	4	2620.88	1.636E-04	0.25	0.29	0.05
9/27/2016	13:00	22.0	612	3	120.2	99.9	1,245	78.3	94	1380	24.93	1364.69	5458.74	4	2723.70	1.700E-04	0.25	0.29	0.05
9/27/2016	14:00	22.0	739	3	119.6	99.9	1,389	153	89	1440	30.13	1522.53	6090.12	4	3038.73	1.897E-04	0.34	0.40	0.06
9/27/2016	16:00	23.0	505	3	115.1	99.9	1,490	205	86	1560	20.75	1633.24	6532.96	4	3259.69	2.035E-04	0.25	0.29	0.05
9/27/2016	18:00	23.0	524	3	110.7	97.5	1,320	205	84	1680	21.70	1446.90	5787.58	4	2887.78	1.803E-04	0.23	0.27	0.04
9/27/2016	20:00	23.0	686	3	111.5	97.3	1,293	208	84	1800	28.37	1417.30	5669.20	4	2828.71	1.766E-04	0.30	0.35	0.06
9/27/2016	22:00	23.0	689	3	119.2	96.3	1,342	228	83	1920	28.11	1471.01	5884.04	4	2935.91	1.833E-04	0.31	0.36	0.06
9/28/2016	0:00	23.0	693	3	110.3	97.2	1,296	201	84	2040	28.72	1420.59	5682.36	4	2835.28	1.770E-04	0.30	0.35	0.06
9/28/2016	8:00	23.0	694	3	109.5	99.3	1,334	219	84	2520	28.80	1462.24	5848.97	4	2918.41	1.822E-04	0.31	0.36	0.06
9/28/2016	10:00	23.0	687	3	109.8	99.0	1,349	225	83	2640	28.49	1478.68	5914.74	4	2951.22	1.842E-04	0.31	0.36	0.06
9/28/2016	12:00	23.0	648	3	111.3	99.5	1,342	230	83	2760	26.81	1471.01	5884.04	4	2935.91	1.833E-04	0.29	0.34	0.05
9/28/2016	14:00	23.0	712	3	112.1	97.7	1,291	232	82	2880	29.41	1415.11	5660.43	4	2824.34	1.763E-04	0.31	0.36	0.06
9/28/2016	16:00	23.0	694	3	112.4	97.5	1,302	247	81	3000	28.65	1427.17	5708.66	4	2848.40	1.778E-04	0.31	0.35	0.06
9/28/2016	18:00	23.0	685	3	112.7	97.3	1,318	251	81	3120	28.27	1444.70	5778.82	4	2883.41	1.800E-04	0.31	0.35	0.06
9/28/2016	20:00	23.0	726	3	114.3	98.1	1,301	247	81	3240	29.88	1426.07	5704.28	4	2846.21	1.777E-04	0.32	0.37	0.06
9/28/2016	22:00	23.0	652	3	110.1	97.4	1,203	229	81	3360	27.03	1318.65	5274.59	4	2631.82	1.643E-04	0.27	0.31	0.05
9/29/2016	0:00	23.0	527	3	105.2	96.3	918	171	81	3480	22.04	1006.25	4025.00	4	2008.32	1.254E-04	0.17	0.19	0.03
9/29/2016	8:00	23.0	516	3	107.1	97.0	792	147	81	3960	21.50	868.14	3472.55	4	1732.67	1.082E-04	0.14	0.16	0.03
9/29/2016	10:00	23.0	548	3	111.0	97.3	779	134	83	4080	22.68	853.89	3415.55	4	1704.23	1.064E-04	0.14	0.17	0.03
9/29/2016	12:00	23.0	624	3	111.4	97.6	1,034	102	90	4200	25.81	1133.40	4533.61	4	2262.10	1.412E-04	0.22	0.25	0.04
9/29/2016	14:00	22.0	603	3	113.8	80.4	1,147	124	89	4320	24.84	1257.27	5029.06	4	2509.31	1.567E-04	0.23	0.27	0.04
9/29/2016	16:00	21.0	582	3	113.9	71.3	1,326	129	90	4440	23.97	1453.47	5813.89	4	2900.91	1.811E-04	0.26	0.30	0.05
9/29/2016	18:00	21.0	563	3	114.6	63.8	1,617	169	90	4560	23.16	1772.45	7089.79	4	3537.53	2.208E-04	0.31	0.36	0.06
9/29/2016	20:00	21.0	514	3	114.3	59.9	1,552	165	89	4680	21.15	1701.20	6804.80	4	3395.33	2.120E-04	0.27	0.31	0.05
9/29/2016	22:00	21.0	518	3	114.8	80.3	1,564	165	89	4800	21.30	1714.35	6857.41	4	3421.58	2.136E-04	0.27	0.32	0.05
9/30/2016	0:00	21.0	516	3	114.2	82.6	1,589	160	90	4920	21.24	1741.76	6967.02	4	3476.28	2.170E-04	0.28	0.32	0.05
9/30/2016	8:00	21.0	509	3	109.1	69.7	1,318	129	90	5400	21.14	1444.70	5778.82	4	2883.41	1.800E-04	0.23	0.26	0.04
9/30/2016	10:00	21.0	527	3	108.8	70.4	1,305	133	90	5520	21.90	1430.45	5721.82	4	2854.97	1.782E-04	0.23	0.27	0.04
9/30/2016	12:00	21.0	542	3	109.5	70.7	1,296	142	89	5640	22.49	1420.59	5682.36	4	2835.28	1.770E-04	0.24	0.28	0.04
9/30/2016	14:00	21.0	536	3	110.3	72.5	1,254	137	89	5760	22.21	1374.55	5498.21	4	2743.39	1.713E-04	0.23	0.26	0.04
Average		22.6	602.4	3.0	113.9	92.4	1137	106	91		24.80	1246.61	4986.42	4	2488.03	1.553E-04	0.23	0.27	0.04
Bws =	0.088	Bws_{wr}	0.06																

Total Pounds of Carbon Recovered as Emissions: 22.19

Total Pounds of Gasoline Vapor Recovered as Emissions: 25.67

Total Gallons of Gasoline Recovered as Emissions: 4.11

(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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ 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/K_3)

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
Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (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	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

Well #	MW-2R		Well #	MW-8		Well #	RW-2	
Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*
0	0.25	15.42	0	0.10	15.71	0	1.50	15.07
0.5	0.25	--	0.5	0.10	--	0.5	1.50	--
1	0.25	--	1	0.10	--	1	1.50	--
1.5	0.25	--	1.5	0.10	--	1.5	1.50	--
2	0.25	15.67	2	0.10	15.78	2	1.50	15.02
2.5	0.25	--	2.5	0.50	--	2.5	1.50	--
3	0.25	--	3	0.50	--	3	1.70	--
3.5	0.25	--	3.5	0.50	--	3.5	1.75	--
4	0.25	15.73	4	0.50	15.79	4	1.75	15.03
4.5	0.25	--	4.5	0.30	--	4.5	3.50	--
5	0.25	--	5	0.30	--	5	3.50	--
5.5	0.25	--	5.5	0.30	--	5.5	4.25	--
6	0.25	15.81	6	0.30	15.73	6	5.00	14.98
6.5	0.25	--	6.5	0.30	--	6.5	5.00	--
7	0.25	--	7	0.30	--	7	5.00	--
7.5	0.25	--	7.5	0.30	--	7.5	5.00	--
8	0.25	15.83	8	0.30	15.79	8	5.00	14.94
9	0.25	--	9	0.30	--	9	5.00	--
10	0.25	15.91	10	0.30	15.82	10	5.00	14.99
18	0.25	15.94	18	0.30	15.78	18	5.00	15.13
19	0.25	--	19	0.10	--	19	5.00	--
20	0.25	15.96	20	0.10	15.81	20	3.50	15.20
21	0.25	--	21	0.10	--	21	3.50	--
22	0.25	15.99	22	0.00	15.81	22	4.00	15.34
23	0.25	--	23	0.00	--	23	4.75	--
24	0.25	16.02	24	0.00	15.83	24	4.50	15.39
26	0.25	16.05	26	0.00	15.84	26	4.50	15.45
28	0.25	16.07	28	0.00	15.84	28	4.50	15.48
30	0.25	16.07	30	0.00	15.84	30	5.00	15.49
32	0.25	16.08	32	0.00	15.85	32	5.00	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
68	0.25	16.34	68	0.05	16.13	68	5.00	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
80	0.25	16.56	80	0.00	16.39	80	3.42	15.72
82	0.25	16.55	82	0.00	16.37	82	3.41	15.73
90	0.25	15.58	90	0.00	15.39	90	3.40	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

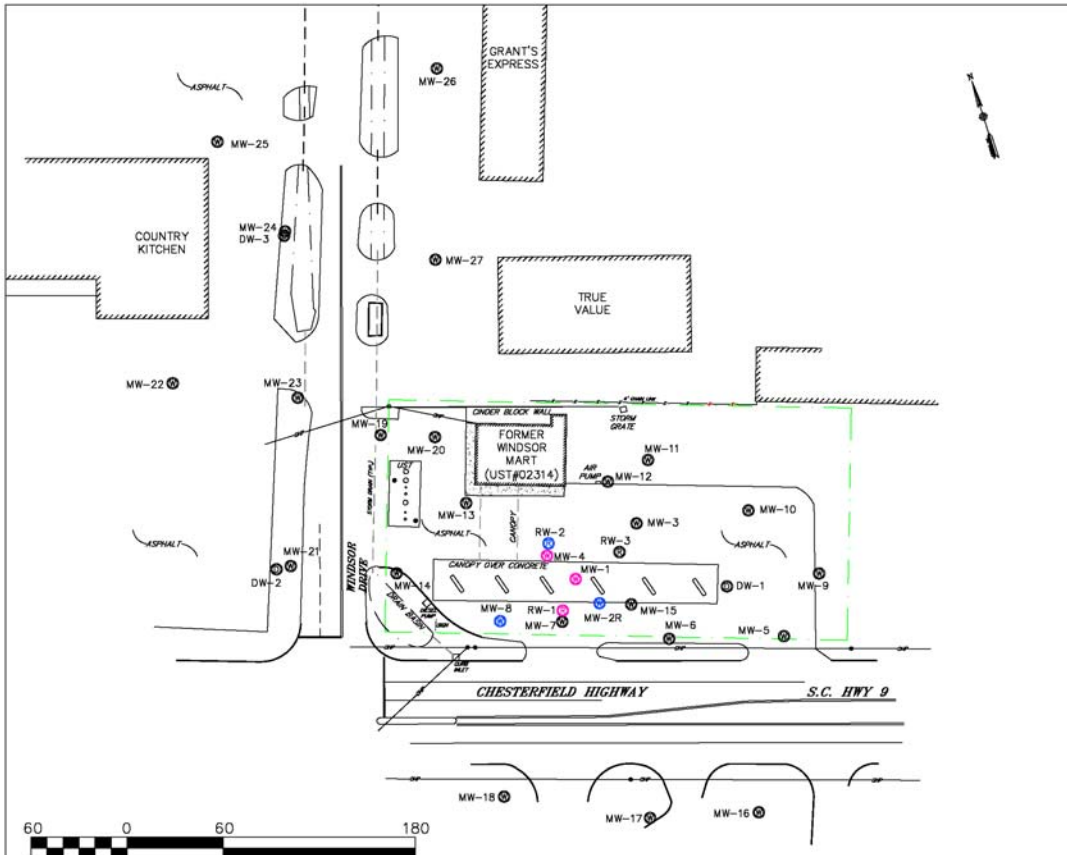
Well #	--	Depth to Product	Depth to Water	Product Thickness
MW-1	Initial	15.56	15.57	0.01
	Final	n/a	15.68	n/a
MW-4	Initial	15.30	15.36	0.06
	Final	n/a	15.29	n/a
RW-1	Initial	15.65	15.84	0.19
	Final	n/a	15.80	n/a
MW-2R	Initial	n/a	15.42	n/a
	Final	n/a	15.73	n/a
MW-8	Initial	n/a	15.71	n/a
	Final	n/a	15.68	n/a
RW-2	Initial	n/a	15.07	n/a
	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.



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE F-8
AFVR MAP (96 HOUR EVENT)

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9G	02314
SCALE 1" = 60'	DATE October 2016

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

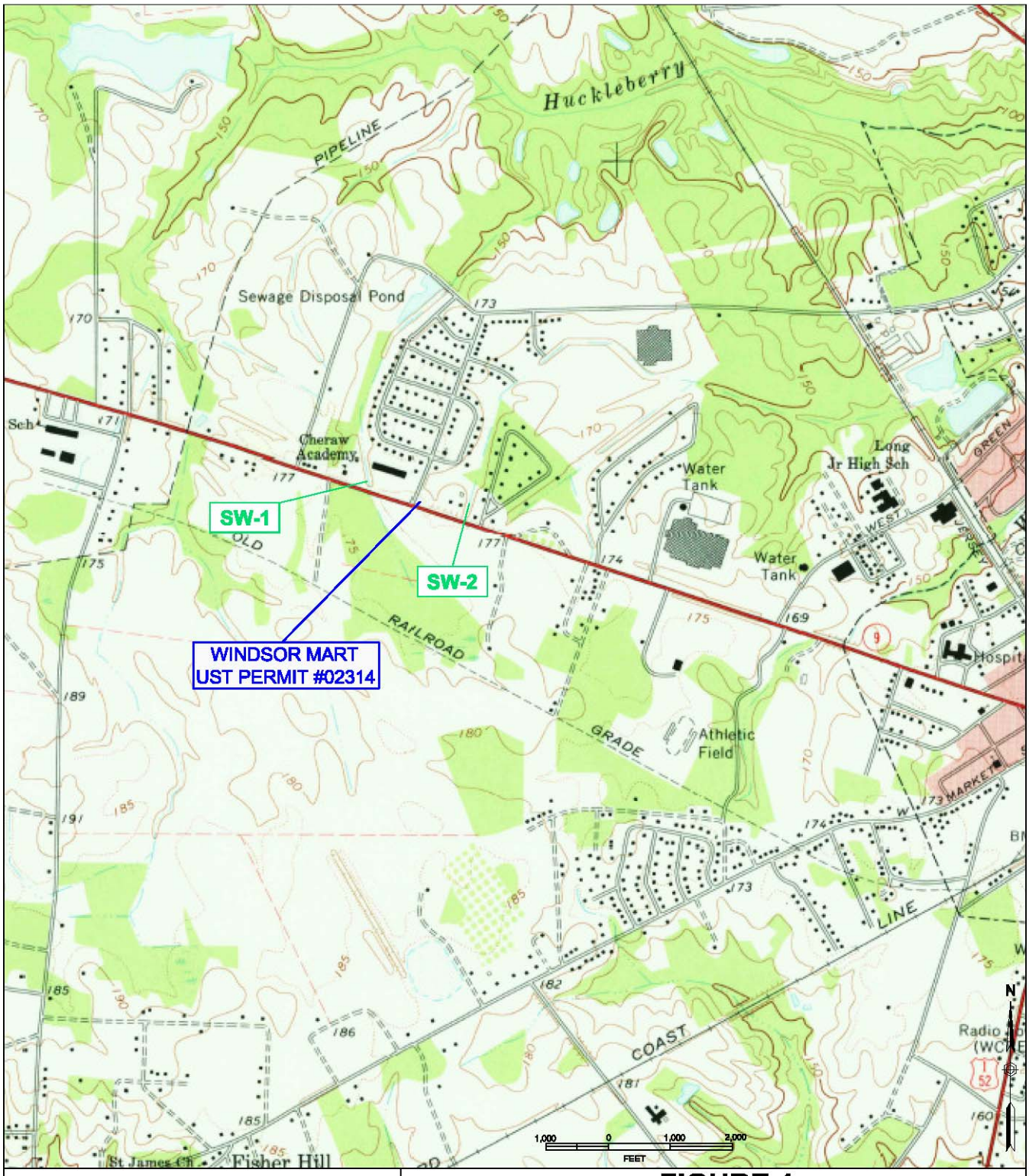


FIGURE 1
TOPOGRAPHIC MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

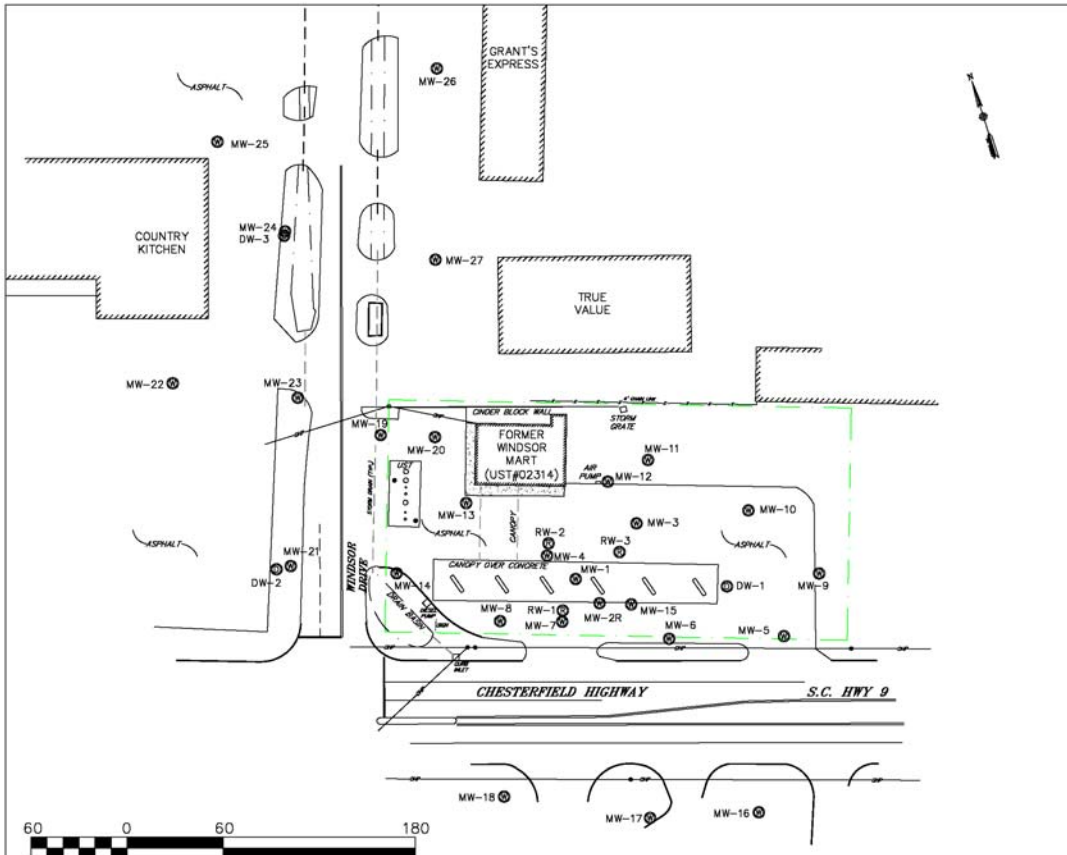
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-9765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9G	Figure 1 Topo Map	

SCALE: As Shown

DATE: October 2016



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 2
SITE BASE MAP

Windsor Mart
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9G	02314
SCALE 1" = 60'	DATE October 2016

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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): 02-314 (SCPHEC)
   Waste ID Number:
2. Generator's Name and Mailing Address:
   WINDSOR MART
   620 Chesterfield Highway
   Cheraw, SC
   Phone ( )
   P O #:
3. Agent of Generator and Mailing Address:
   TERRY Environmental
   P.O. Box 25
   Summerville, SC 29484
   Phone (843) 873-8200
   P O #: Attn: Montgomery
   * Please text with gallon info - 803-318-7470 -
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
   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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	UT	GAL	4,857

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: M. Montgomery Taylor | Signature: M. Taylor | Date: 9/27/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Paul Berry | Signature: Paul Berry | Date: 9-27-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Wattlie | Signature: [illegible] | Date: 9/27/16

White - Facility | Yellow - Office | Pink - Transporter | Blue - Generator

14787

15222134
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

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 ©

WEIGHMYTRUCK.C
WEIGH US
Y
PHC

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:

1) 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.co for instructions.
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.

DATE: 9-27-2016

SCALE: 361

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

STEER AXLE	9840	lb
DRIVE AXLE	12220	lb
TRAILER AXLE	9180	lb
* GROSS WEIGHT	31240	lb

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 facie 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

COMPANY: GOOD SELL — TRACTOR #: 96 — TRAILER #: 107

WEIGH NUMBER: 2135

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: LISA BUNGARNER

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3059

1522[illegible]44
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 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.©

WEIGHMYTRUCK.COM
WEIGH USING
YOUR
PHONE

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:

1) 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 for instructions.
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.

DATE: 9-27-2016

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9840 lb
DRIVE AXLE	31120 lb
TRAILER AXLE	30780 lb
* GROSS WEIGHT	71740 lb

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: [illegible] TRACTOR #: [illegible] TRAILER #: 107

WEIGH NUMBER 2145

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: Dermaine Hart

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3059 07/15

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): 02314 (SC DHEC) — Waste ID Number:
2. Generator's Name and Mailing Address: Windsor Mart, 820 Chesterfield Highway, Cheraw, SC — Phone ( ) — P O #:
3. Agent of Generator and Mailing Address: Terry Environmental, P.O Box 25, Summerville, SC 29484 — Phone (843) 754-4456 — P O #:
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	VT	GAL	4727

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: Lyall Plumb — Signature: [signature] — Date: 9/28/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Todd Brown — Signature: Todd Brown — Date: 9/28/16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: [illegible] — Signature: [signature] — Date: 9/28/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14788

85408788

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

1628
85408788

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

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.

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YOU
PHON

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.
2) 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.
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.

DATE: 9-28-2016

SCALE 254

LOCATION: KANGAROO EXPRESS
I 26 EXIT 199B
SUMMERVILLE SC

STEER AXLE	10480 lb
DRIVE AXLE	15740 lb
TRAILER AXLE	12000 lb
* GROSS WEIGHT	38220 lb

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

COMPANY: GOODSELL

TRACTOR #: 05

TRAILER #: 105

WEIGH NUMBER
8782

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: Deja

DEJA

FULL WEIGH TICKET # (IF REWEIGH): 85408782

CUSTOMER COPY

© CAT Scale® Reg 3055 07/15

85408782

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

1511
85408782

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

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.

WEIGHMYTRUCK.CO
WEIGH USI
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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.
2) 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.
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.

DATE: 9-28-2016

SCALE 254

LOCATION: KANGAROO EXPRESS
I 26 EXIT 199B
SUMMERVILLE SC

STEER AXLE	10520 lb
DRIVE AXLE	34620 lb
TRAILER AXLE	32460 lb
* GROSS WEIGHT	77600 lb

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 = 4,727G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL

TRACTOR #: 05

TRAILER #: 105

WEIGH NUMBER
8782

FEE $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: Heather Voyles
HEATHER

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3655 07/1

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): 02314 (SC DHEC) — Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart, 820 Counterfeit Highway, Cuckaw, SC — Phone ( ) — PO #:

3. Agent of Generator and Mailing Address: TERP Environmental, P.O. Box 25, Summerville, SC 29484 — Phone (843) 3187470 — PO #: ↳ please text with amount

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	VT	GAL	5,349

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: M Montgomery Taylor — Signature: M. Montgomery Taylor — Date: 9/28/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Paul Berry — Signature: Paul Berry — Date: 9-28-16

11. Discrepancy Indication space:

12. Facility Owner or Operator Certification of Receipt of Materials

Printed/Typed Name: David Ward — Signature: [signature] — Date: 9-28-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14790

15222172
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 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.®

WEIGHMYTRU
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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

1) 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.catscaleguaran for instructions.
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.

DATE: 9-28-2016

SCALE: 241

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10080 lb
DRIVE AXLE	12380 lb
TRAILER AXLE	9140 lb
* GROSS WEIGHT	31600 lb

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.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: _____ TRACTOR #: _____ TRAILER #: 107

WEIGH NUMBER: 2173

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: KIENRA DAVIS

FULL WEIGH TICKET # (IF REWEIGH): _____

CUSTOMER COPY

© CAT Scale® Reg

15222185
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 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**
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WEIGHMYTRUCK.CO
WEIGH USIN
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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.
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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.

DATE: 9-28-2016

SCALE:

LOCATION: 381 PILOT TRAVEL CENTER I-65 AND I-52 EXIT 164

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10080 lb
DRIVE AXLE	33240 lb
TRAILER AXLE	32840 lb
* GROSS WEIGHT	76160 lb

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 facie evidence of the accuracy of the weight shown as prescribed by law.

net = 44,560 : 5,349G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY [illegible] TRACTOR # [illegible] TRAILER # 107

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE Lisa Bungarner

FULL WEIGH TICKET # (IF REWEIGH) 15222173

LISA BUNGARNER

WEIGH NUMBER 2173

CUSTOMER COPY

© CAT Scale® Reg 3059 07

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): 02314 (SC DHEC)
   Waste ID Number:
2. Generator's Name and Mailing Address:
   WINDSOR-MABRY
   820 Chesterfield Highway
   Cheraw, SC
   Phone ( )
   P O #:
3. Agent of Generator and Mailing Address:
   TERRY Environmental
   P.O. Box 25
   Summerville, SC 29484
   Phone (803) 318-7470
   P O #: Please text information
4. Transporter Company Name:
   Goodsell Transportation
   Goose Creek, SC
   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

   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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	OT	GAL	5,549

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: M Montgomery Taylor Signature: M. Mont Date: 9/29/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Paul Berry Signature: Paul Berry Date: 9-29-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: David Ward Signature: David Ward Date 9-29-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14789

15222223
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 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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WEIGHMYTRUCK.CO
WEIGH USIN
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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.
2) 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.
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.

DATE: 9-29-2016

SCALE: 3A1

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9820 lb
DRIVE AXLE	12120 lb
TRAILER AXLE	9120 lb
* GROSS WEIGHT	31060 lb

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

COMPANY: [illegible] TRACTOR #: [illegible] TRAILER #: 107

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: [signature] LISA BURGARNER

FULL WEIGH TICKET # (IF REWEIGH):

WEIGH NUMBER 2223

CUSTOMER COPY

©CAT Scale® Reg 3059 07/16

152[illegible]232
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 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.©

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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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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.

DATE: 9-29-2016

SCALE: 361

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	9660 lb
DRIVE AXLE	33740 lb
TRAILER AXLE	33660 lb
* GROSS WEIGHT	77280 lb

IMPRINT SEAL HERE (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 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 KINDS

COMPANY: [illegible] TRACTOR #: [illegible] TRAILER #: 107

WEIGH NUMBER 2223

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: [signature] LISA DUNGANNER

FULL WEIGH TICKET # (IF REWEIGH): [illegible]

CUSTOMER COPY

© CAT Scale® Reg 3058 07/16

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): 02314 (SC DHEC)
   Waste ID Number:
2. Generator's Name and Mailing Address:
   Winsor Mart
   820 Chesterfield Highway
   Cheraw, SC
   Phone ( )
   P O #:
3. Agent of Generator and Mailing Address:
   Terra Environmental
   P.O. Box 25
   Summerville, SC 29484
   Phone (803) 318-7470
   P O #: Please text
4. Transporter Company Name:
   Gandell Transportation
   Boone Creek, SC
   Phone ( )

Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address:	Mailing Address:	
US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	VT	GAL	5,637

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: M. Montgomery Taylor Signature: M. Taylor Date: 9/30/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Paul Berry Signature: Paul Berry Date: 9.30.16

11. Discrepancy Indication space

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Nathalie Dyer Signature: Nathalie Dyer Date: 9/30/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14808

15222253
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. 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.©

WEIGHMYTRUCK.COM
WEIGH USING
YOUR
PHONE

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: 9-30-2016

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10100 lb
DRIVE AXLE	12360 lb
TRAILER AXLE	9140 lb
* GROSS WEIGHT	31600 lb

IMPRINT SEAL HERE (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 facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: [illegible] TRACTOR #: [illegible] TRAILER #: 107

WEIGH NUMBER 2223

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: LISA BUNGARNER

FULL WEIGH TICKET # (IF RE-WEIGH) 15222223

CUSTOMER COPY

© CAT Scale® Reg 3659 07/16

15222261
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 GUARANTEE

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WEIGH WHAT WE SAY OR WE PAY©

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WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE!

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DATE: 9-30-2016

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10120 lb
DRIVE AXLE	34420 lb
TRAILER AXLE	34020 lb
* GROSS WEIGHT	78560 lb

IMPRINT SEAL HERE (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 facia evidence of the accuracy of the weight shown as prescribed by law.

net 46,960 = 5,637G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY GoodSell TRACTOR # _____ TRAILER # 107

FEE $11.00 WEIGHMASTER OR WEIGHER SIGNATURE LISA BUNGARNER FULL WEIGH TICKET # (IF REWEIGH) _____

WEIGH NUMBER 2241

CUSTOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE

© CAT Scale® Reg 3056 07/16

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): Waste ID Number:

2. Generator's Name and Mailing Address: Conven Cupboard
820 Chesterfield Hwy
Cheraw, SC
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental Srvs
1753 N. Main St
Summerville, SC
Phone ( )
P O #:

4. Transporter Company Name: Bedsell Transport
511 Old Mt Holly Rd
Goose Creek, SC
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	gal=	4,607

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: Date:

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Donald Jones Signature: Donald Jones Date: 9/30/14

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: Nathalie Dan Signature: Nathalie Dan Date 9/30/14

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14016

15222268
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 GUARANTEE

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WEIGHMYTRUCK.CO
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YOU
PHONE

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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.

DATE: 9-30-2016

SCALE: 301

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11120 lb
DRIVE AXLE	15760 lb
TRAILER AXLE	10660 lb
* GROSS WEIGHT	37540 lb

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

COMPANY: GOODSELL TRACTOR #: 03 TRAILER #: 101

WEIGH NUMBER 2268

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: Germaine Hart GERMAINE HART

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3069 07/16

15222271
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 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.

WEIGHMYTRUCK.CO
WEIGH USIN
YOU
PHON

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.
2) 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.
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.

DATE: 9-30-2015

SCALE: 3&1

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11120 lb
DRIVE AXLE	32800 lb
TRAILER AXLE	32000 lb
* GROSS WEIGHT	75920 lb

IMPRINT SEAL HERE (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 facia evidence of the accuracy of the weight shown as prescribed by law.

net 38,380 = 4,607G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY _____ TRACTOR # _____ TRAILER # 101

WEIGH NUMBER 2268

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE JAMES FOWLER

FULL WEIGH TICKET # (IF REWEIGH) 15222244

CUSTOMER COPY

© CAT Scale® Reg 3058 07/16

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
COLNEL CUPBOARD
820 CHESTERFIELD HWY
CHERAW S.C 29520

Phone ( )

P O #:

3. Agent of Generator and Mailing Address:
TERRY ENVIRONMENTAL
N.CHARLESTON SC

Phone ( )

P O #:

4. Transporter Company Name:
GOODSELL TRANSPORT
511 OLD MT. HOLLY RD.
GOOSE CREEK SC 29445

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

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
			106

8. U.S. DOT Description	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	106	VT	GAL.	4,591

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: Bhumi Patel

Signature:

Date: 10/11/16

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Date:

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name:

Signature:

Date: 10/11/16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14088

15222280
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

657
15222280
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER
2280

CUSTOMER COPY

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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.

DATE: 10-01-2016

SCALE: 361

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

STEER AXLE	10780	lb
DRIVE AXLE	17220	lb
TRAILER AXLE	12940	lb
* GROSS WEIGHT	40940	lb

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LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: WOODSELL — TRACTOR #: 97 — TRAILER #: 106

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: NICOLE NEIL

FULL WEIGH TICKET # (IF REWEIGH):

© CAT Scale® Reg

15222282
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6283
www.catscale.com

THE CAT SCALE GUARANTEE

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YO
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WEIGH WHAT WE SAY OR WE PAY®

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DATE: 10-01-2016

SCALE: 361

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FflorENCE SC

STEER AXLE	10720	lb
DRIVE AXLE	35520	lb
TRAILER AXLE	32940	lb
* GROSS WEIGHT	79180	lb

947
15222282

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

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IMPRINT SEAL HERE (IF APPLICABLE)

net 38,240 = 4,591G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRACTOR #: 97 TRAILER #: 106

WEIGH NUMBER 2290

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: Judy Hines
JAMES FOWLER

FULL WEIGH TICKET # (IF REWEIGH): 15222240

CUSTOMER COPY

© CAT Scale® Reg 3059 0

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):
   Waste ID Number:

2. Generator's Name and Mailing Address:
   Corner Cupboard
   Cheraw SC
   Phone ( )
   P O #:

3. Agent of Generator and Mailing Address:
   Terry Environmental
   Phone ( )
   P O #:

4. Transporter Company Name:
   Goodsell Transport
   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

   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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	10S	VT	Gal	4936

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: Date:

10. Transporter Acknowledgement of Receipt of Materials
    Printed/Typed Name: Todd Brown Signature: Todd Brown Date: 10-01-16

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
    Printed/Typed Name: Signature: Date 10-01-16

White - Facility Yellow - Office Pink - Transporter Blue - Generator

14817

15251919
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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DATE: 10-01-2016

18
251919
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

SCALE: 947
LOCATION: TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	10600	lb
DRIVE AXLE	15920	lb
TRAILER AXLE	12140	lb
*GROSS WEIGHT	38660	lb

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IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMMODITY: GROCERY SELL TRACTOR #: 305 TRAILER #: 405

H NUMBER
19

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: TB
TIESHA B

FULL WEIGH TICKET # (IF REWEIGH)

CUSTOMER COPY

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15251920
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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DATE: 10-01-2016

55
251920
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

SCALE: 947
LOCATION: TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

STEER AXLE	10760	lb
DRIVE AXLE	35460	lb
TRAILER AXLE	33480	lb
* GROSS WEIGHT	79700	lb

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)

net 41,040 = 4,9266

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMMODITY: GOODSELL TRAILER #: 305 TRAILER #: 105

H NUMBER
19

FEE
$2.00

WEIGHMASTER OR WEIGHER SIGNATURE
BARBARA FULLARD

FULL WEIGH TICKET # (IF REWEIGH): 15251919

CUSTOMER COPY

© CAT Scale® Reg

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

Contractor Checklist – Windsor Mart

UST Permit #02314 - TERRY Project #2171.9G

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		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 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.

dhec
Healthy People Healthy Communities.

UST
DOCKETING

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**.

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

UST 284 DOCKETING
UST DEC 0 9 2016 DIVISION

D H E C
PROMOTE PROTECT PROSPER

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

To: Read Miner (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: Terry Environmental Services UST Contractor Certification Number: UCC-0223

Facility Name: Maruti Kundal (Former Windsor Mart) UST Permit #: 02314
Facility Address: 820 Chesterfield Highway
Responsible Party: Jackson Oil Company, Inc. Phone: 843-537-7080
RP Address: 755 S. 4th Street, Hartsville, South Carolina 29550-5723
Property Owner (if different): n/a
Property Owner Address: n/a
Current Use of Property: Gas Station and Convenience Store (Corner Cupboard)

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☐ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Soil:

- ☐ BTEXN
- ☐ PAH
- ☐ 8 RCRA Metals
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

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

-- Soil	-- Water Supply Wells	-- Air	1 Field Blank
13 Monitoring Wells	-- Surface Water	1 Duplicate	1 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: _____ Estimated Footage: _____ feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Monitoring Well development method (consistent with SOP): _____
Comments, if warranted:

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: –55 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 limited sampling event; shallow 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. The monitoring wells were last sampled February 2015 and will be purged prior to sampling. A subsequent survey will also be conducted on recovery wells RW-1 through RW-3.

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 ACQAO? (Yes/No) If no, indicate driller information below.
Name of Well Driller:
SCLLR Certification Number:

____ Other variations from ACQAP. Please describe below.

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

dhec
Healthy People. Healthy Communities.

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
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	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	1	each	$423.00	$423.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	13	per well/receptor	$60.00	$780.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater -NP, SW, or Dup(1)	1	per well/receptor	$28.00	$28.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	1	each	$24.60	$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	16	per sample	$122.00		$1,952.00
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		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-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05		$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75		$0.00
N. EDB (504.1)		per sample	$79.50		$0.00
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***	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			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Management	12%	percent	$3,648.40		$437.81
TOTAL					$4,086.21

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

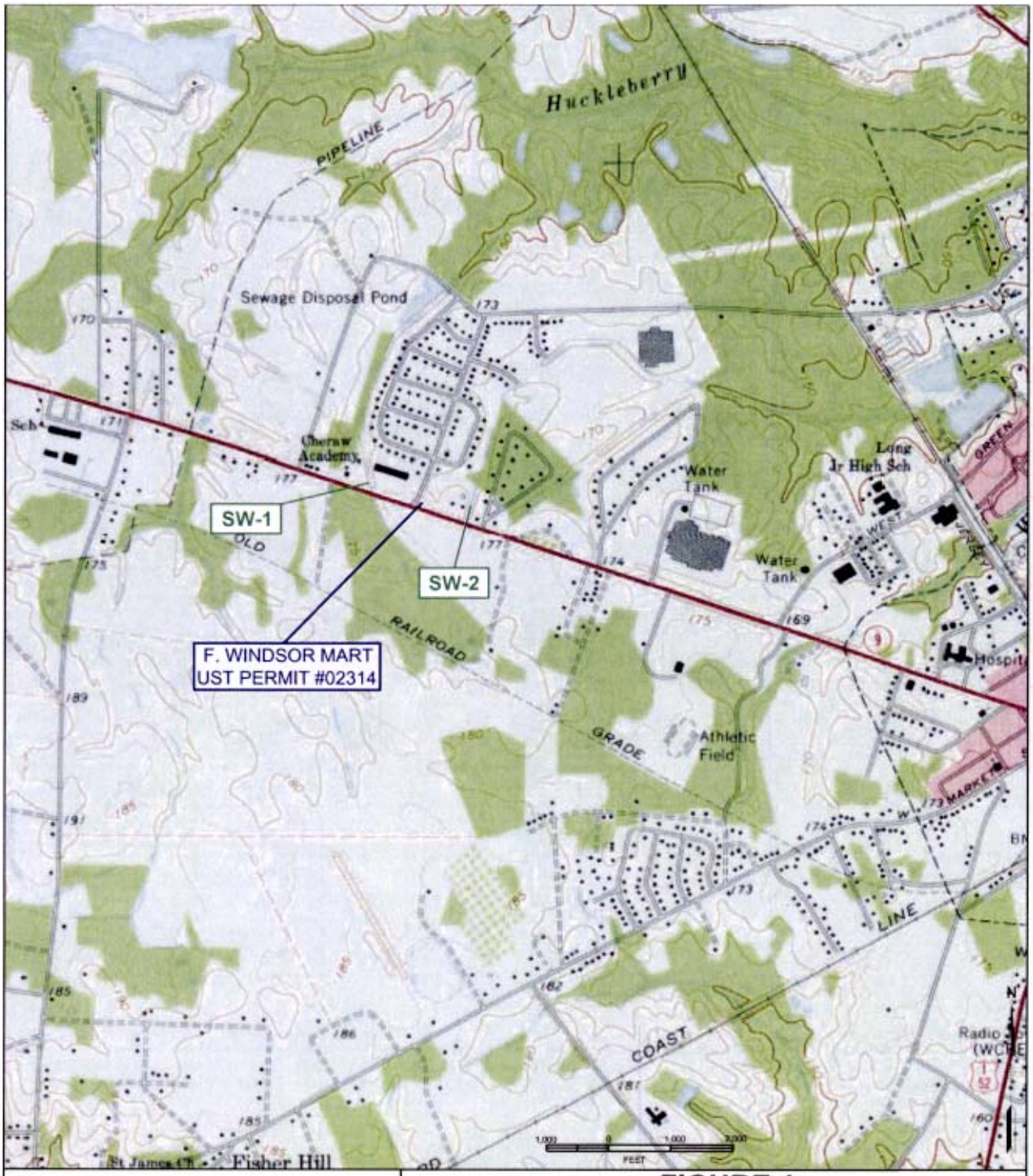


FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

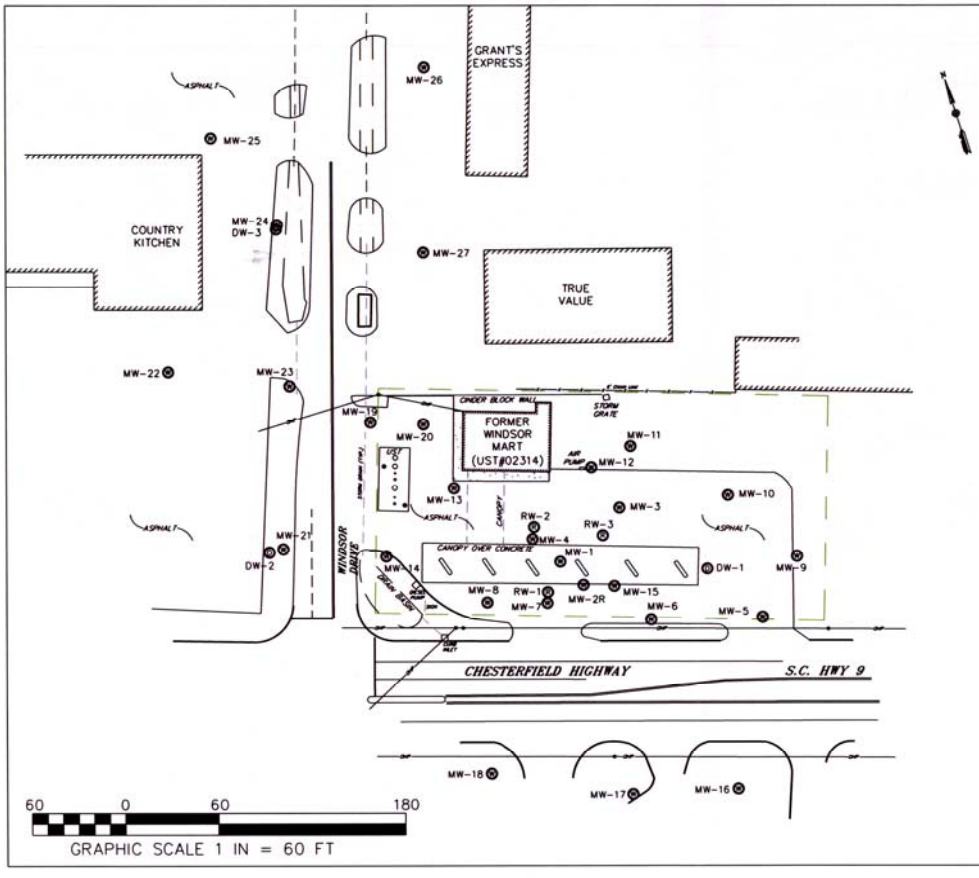
...providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9H	Figure 1 Topo Map	

SCALE: As Shown

DATE: December 2016



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

TERRY ENVIRONMENTAL SERVICES
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FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9H	02314
SCALE 1" = 60'	DATE December 2016

dhec
Healthy People Healthy Communities

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.

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

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 Amount		3,585.79

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 1-30-17

Permit Number 02314

Project Manager Reed Miller

Name of Contractor Terry Env.

UST Certification Number _____

Docket Number 30t

Scanned _____

GWM Report

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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

KELLY K. CONE
REGISTERED
No.
2509
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

JANUARY 2017

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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
Certification:	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.

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	pH	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

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
02314-MW1	3/19/1997	173.28	10 to 20	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
	9/26/2014			19.60	16.82	**2.78**	153.68
	2/2/2015			Free Product (1.20 ft)			
	1/3/2017			15.96	n/a	n/a	157.32
02314-MW2	6/17/1997	100.06	10 to 20	16.04	n/a	n/a	84.02
	12/9/2013			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
	1/3/2017			15.96	n/a	n/a	157.96
02314-MW3	6/17/1997	171.43	10 to 20	13.64	n/a	n/a	157.79
	12/9/2013			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)			
	1/3/2017			13.45	n/a	n/a	157.98
02314-MW4	6/17/1997	173.39	10 to 20	15.75	n/a	n/a	157.64
	12/9/2013			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)			
	1/3/2017			15.69	n/a	n/a	157.70
02314-MW5	9/29/2014	174.97	9.9 to19.9	18.51	n/a	n/a	156.46
	2/2/2015			17.10	n/a	n/a	157.87
	1/3/2017			Not Gauged			
02314-MW6	9/29/2014	174.57	10.1 to 20.1	18.17	n/a	n/a	156.40
	2/2/2015			16.55	n/a	n/a	158.02
	1/3/2017			Not Gauged			
02314-MW7	9/29/2014	174.20	10.3 to 20.3	18.09	17.86	**0.23**	156.11
	2/2/2015			Free Product (0.27 ft)			
	1/3/2017			16.37	n/a	n/a	157.83
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
	1/3/2017			15.93	n/a	n/a	157.86
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
	1/3/2017			Not Gauged			
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
	1/3/2017			Not Gauged			
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
	1/3/2017			Not Gauged			
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
	1/3/2017			Not Gauged			

TABLE 2
GROUNDWATER POTENTIOMETRIC DATA
MARUTI KUNDAL (FORMER WINDSOR MART)
CHERAW, SOUTH CAROLINA
SCDHEC UST PERMIT #02314
TERRY PROJECT #2171.9H

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
02314-MW13	9/29/2014	172.64	10.3 to 20.3	17.20	n/a	n/a	155.44
	2/2/2015			15.55	n/a	n/a	157.09
	1/3/2017			14.95	n/a	n/a	157.69
02314-MW14	9/29/2014	172.88	10.3 to 20.3	16.75	n/a	n/a	156.13
	2/2/2015			15.15	n/a	n/a	157.73
	1/3/2017			Not Gauged			
02314-MW15	9/29/2014	173.85	10.3 to 20.3	17.90	n/a	n/a	155.95
	2/2/2015			15.85	n/a	n/a	158.00
	1/3/2017			15.88	n/a	n/a	157.97
02314-MW16	11/19/2014	176.97	16.0 to 26.0	21.50	n/a	n/a	155.47
	2/2/2015			18.69	n/a	n/a	158.28
	1/3/2017			Not Gauged			
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
	1/3/2017			Not Gauged			
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
	1/3/2017			Not Gauged			
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
	1/3/2017			13.95	n/a	n/a	157.55
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
	1/3/2017			14.30	n/a	n/a	157.52
02314-MW21	2/2/2015	173.97	13.7 to 23.7	16.55	n/a	n/a	157.42
	1/3/2017			Not Gauged			
02314-MW22	2/2/2015	171.95	12 to 22	14.65	n/a	n/a	157.30
	1/3/2017			Not Gauged			
02314-MW23	2/2/2015	171.03	11.2 to 21.2	13.72	n/a	n/a	157.31
	1/3/2017			13.65	n/a	n/a	157.38
02314-MW24	2/2/2015	169.78	11 to 21	12.54	n/a	n/a	157.24
	1/3/2017			Not Gauged			
02314-MW25	2/2/2015	170.08	11 to 21	13.00	n/a	n/a	157.08
	1/3/2017			Not Gauged			
02314-MW26	2/2/2015	169.21	10.4 to 20.4	12.24	n/a	n/a	156.97
	1/3/2017			Not Gauged			
02314-MW27	2/2/2015	168.95	10 to 20	11.81	n/a	n/a	157.14
	1/3/2017			Not Gauged			
02314-RW1	1/3/2017	Unknown	10 to 30	16.11	n/a	n/a	n/a
02314-RW2	1/3/2017	Unknown	10 to 30	15.47	n/a	n/a	n/a
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
	1/3/2017			Not Gauged			

TABLE 2
GROUNDWATER POTENTIOMETRIC DATA
MARUTI KUNDAL (FORMER WINDSOR MART)
CHERAW, SOUTH CAROLINA
SCDHEC UST PERMIT #02314
TERRY PROJECT #2171.9H

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
02314-DW2	2/2/2015	174.37	44.6 to 49.6	16.59	n/a	n/a	157.78
	1/3/2017			Not Gauged			
02314-DW3	2/2/2015	169.93	44.6 to 49.6	13.72	n/a	n/a	156.21
	1/3/2017			Not Gauged			

Notes:
All Data Prior to December 2013 collected by others
[(1)] TOC = Top of casing relative to an assumed data
* = Measured relative to TOC

**Corrected Elevation calculated using following equation:
Corrected elevation = Water table elevation + [(0.77)(free product thickness)]

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9H
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**
02314-MW1	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	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (3.34 ft.)																
	9/26/2014	Free Product (2.78 ft.)																
	1/3/2017	**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
02314-MW2	6/17/1997	**29**	1.25	1.13	136.1	5.5	13.7	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Could Not Find																
	9/29/2014	Could Not Find																
02314-MW2R	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
	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-MW3	6/17/1997	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
	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
	9/26/2014	Free Product (0.95 ft.)																
	1/3/2017	**11**	17	36	260	**28**	<5.0	<5.0	--	--	<50	<100	<5.0	<5.0	<100	<500	53J	<25
02314-MW3(DUP)	1/3/2017	**12**	17	37	260	**28**	<5.0	<5.0	--	--	<50	<100	<5.0	<5.0	<100	<500	51J	<25
02314-MW4	6/17/1997	**5,430**	**14,300**	**1,960**	**19,360**	**1,090**	<2,500	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (1.89 ft.)																
	9/26/2014	Free Product (3.11 ft.)																
	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
02314-MW5	9/29/2014	**13**	110	16	100	4.8	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																
02314-MW6	9/29/2014	1.5	8.8	2.6	21	<1.0	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	60	<5.0
	1/3/2017	Not Sampled																
02314-MW7	9/29/2014	Free Product (0.23 ft.)																
	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-MW8	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
	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
02314-MW9	9/29/2014	0.51J	3.0	0.54J	3.0	<1.0	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																
02314-MW10	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
	1/3/2017	Not Sampled																
02314-MW11	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
	1/3/2017	Not Sampled																
02314-MW12	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
	1/3/2017	Not Sampled																
02314-MW13	9/29/2014	**6,400**	**21,000**	**1,700**	8,600	**300**	**110J**	<200	--	--	<2,000	<4,000	**240**	<200	<4,000	<20,000	**5,400**	<1,000
	1/3/2017	**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-MW14	9/29/2014	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
	1/3/2017	Not Sampled																
02314-MW15	9/29/2014	**2,800**	**12,000**	**750**	5,900	**120J**	<200	<200	--	--	<2,000	<4,000	<200	<200	<4,000	<20,000	**5,100**	<1,000
	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
02314-MW16	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
	1/3/2017	Not Sampled																
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	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9H
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**
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
	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
	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
	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
	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
	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
	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	Not Sampled																
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
	1/3/2017	Not Sampled																
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
	1/3/2017	Not Sampled																
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
	1/3/2017	Not Sampled																
02314-RW1	1/3/2017	**13,000**	**43,000**	**2,800**	**19,000**	**550**	**310J**	<500	--	--	**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
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
	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-SW2	12/9/2013	Dry																
	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

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-Dichloroethane
EDB = 1,2-Dibromoethane
TAME = t-amyl methyl ether or tert-Amyl methyl ether
TBA = t-Butanol 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-amyl 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

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

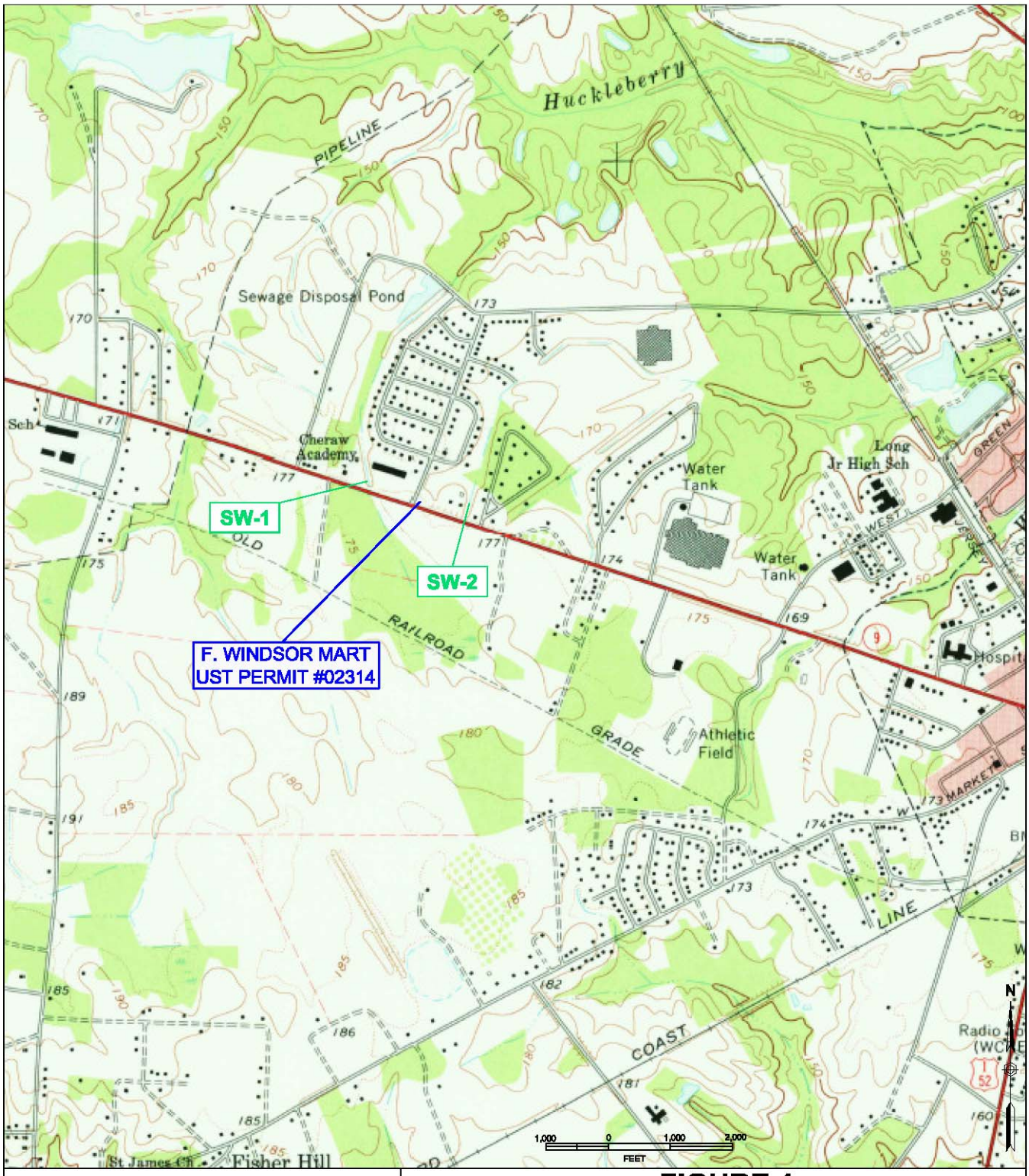

FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
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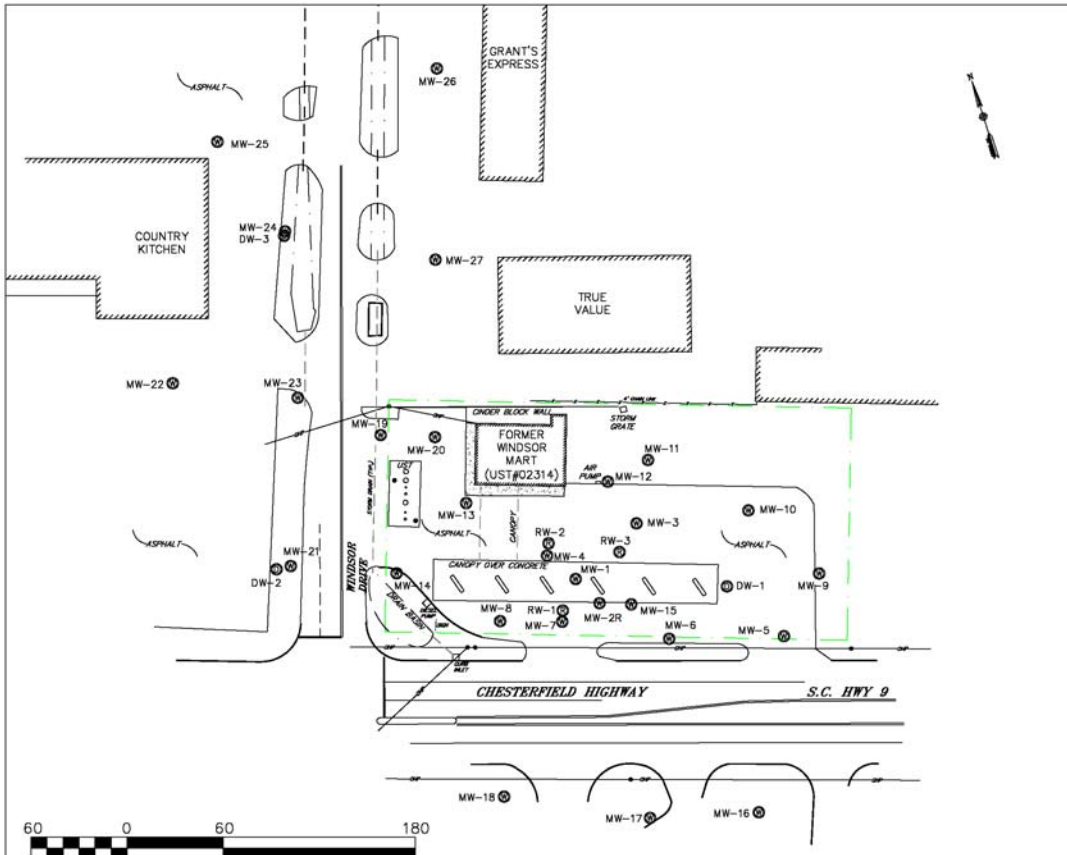
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-9765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9H	Figure 1 Topo Map	

SCALE: As Shown

DATE: January 2017



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

TERRY ENVIRONMENTAL SERVICES
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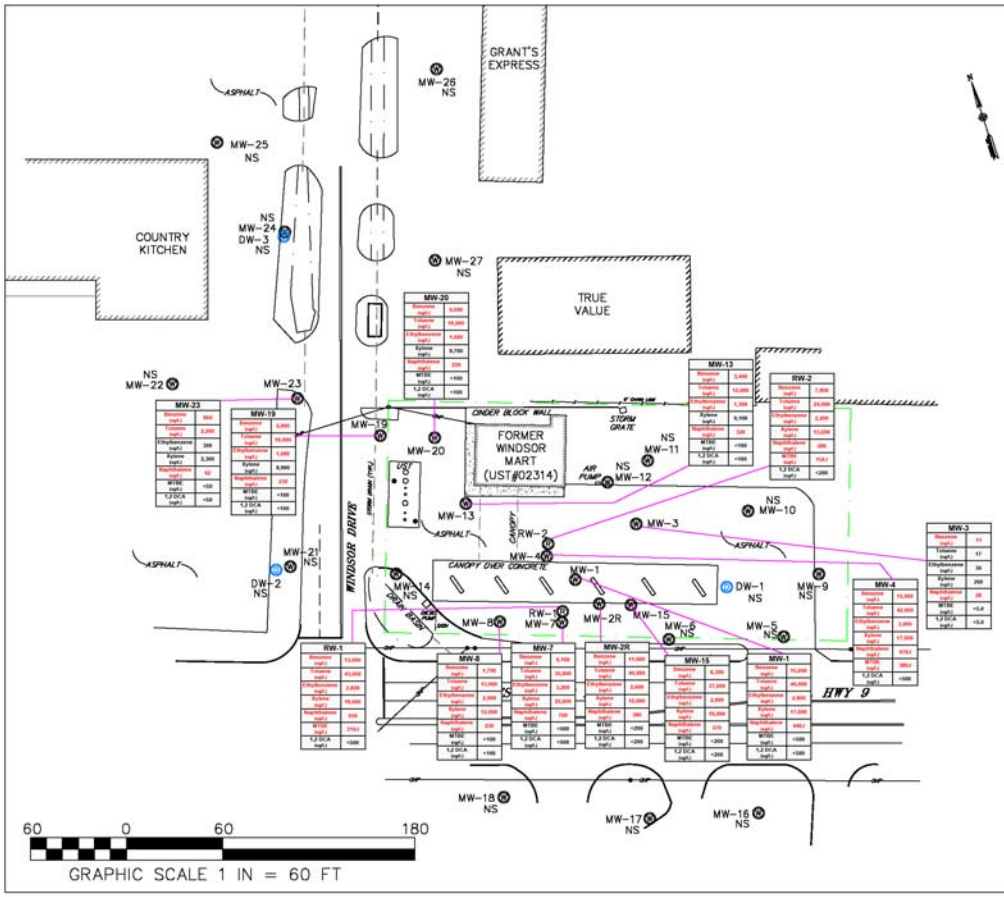
FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9H	02314
SCALE 1" = 60'	DATE January 2017



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- OP — POWER POLE WITH OVERHEAD POWER
- MW-# — MONITORING WELL
- DW-# — DEEP MONITORING WELL
- RW-# — RECOVERY WELL
- BUILDING

EDB = 1,2-DIBROMOETHANE
MTBE = METHYL TERTIARY BUTYL ETHER
1,2 DCA = 1,2-DICHLOROETHANE
J = ESTIMATED VALUE
-- = PARAMETERS NOT ANALYZED
RED INDICATES CONTAMINANTS EXCEED RBSLs
NS = NOT SAMPLED
SAMPLES COLLECTED JANUARY 3, 2017
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES
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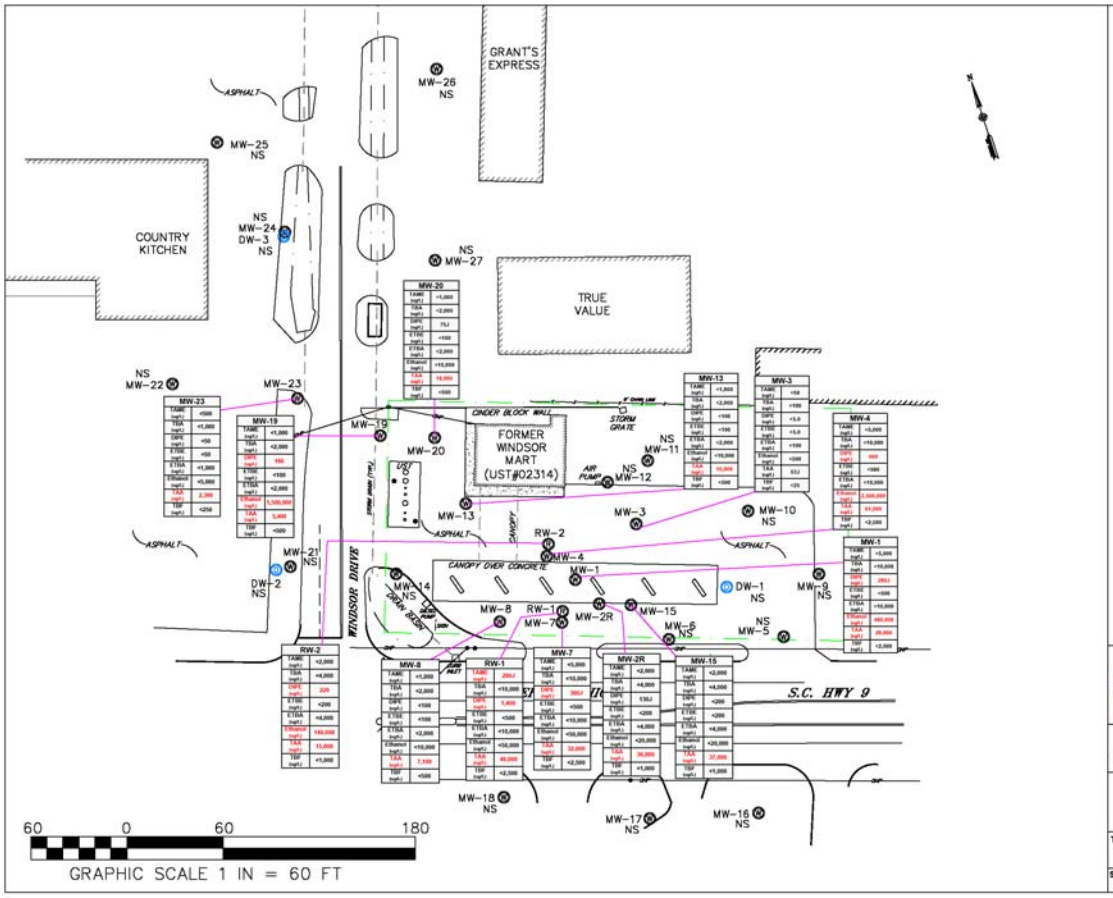
FIGURE 4A
GROUNDWATER COC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9H	02314
SCALE 1" = 60'	DATE January 2017



LEGEND & ABBREVIATIONS:

APPROXIMATE PROPERTY LINE
POWER POLE WITH OVERHEAD POWER
MW-# MONITORING WELL
DW-# DEEP MONITORING WELL
BUILDING

TAME = TERT-AMYL METHYL ETHER
TBA = TERT-BUTYL ALCOHOL or T-BUTANOL
DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
ETBA = 3,3-DIMETHYL-1-BUTANOL OR ETHYL-TERT-BUTANOL
TAA = TERT-AMYL ALCOHOL
TBF = TERT-BUTYL FORMATE
J = ESTIMATED VALUE

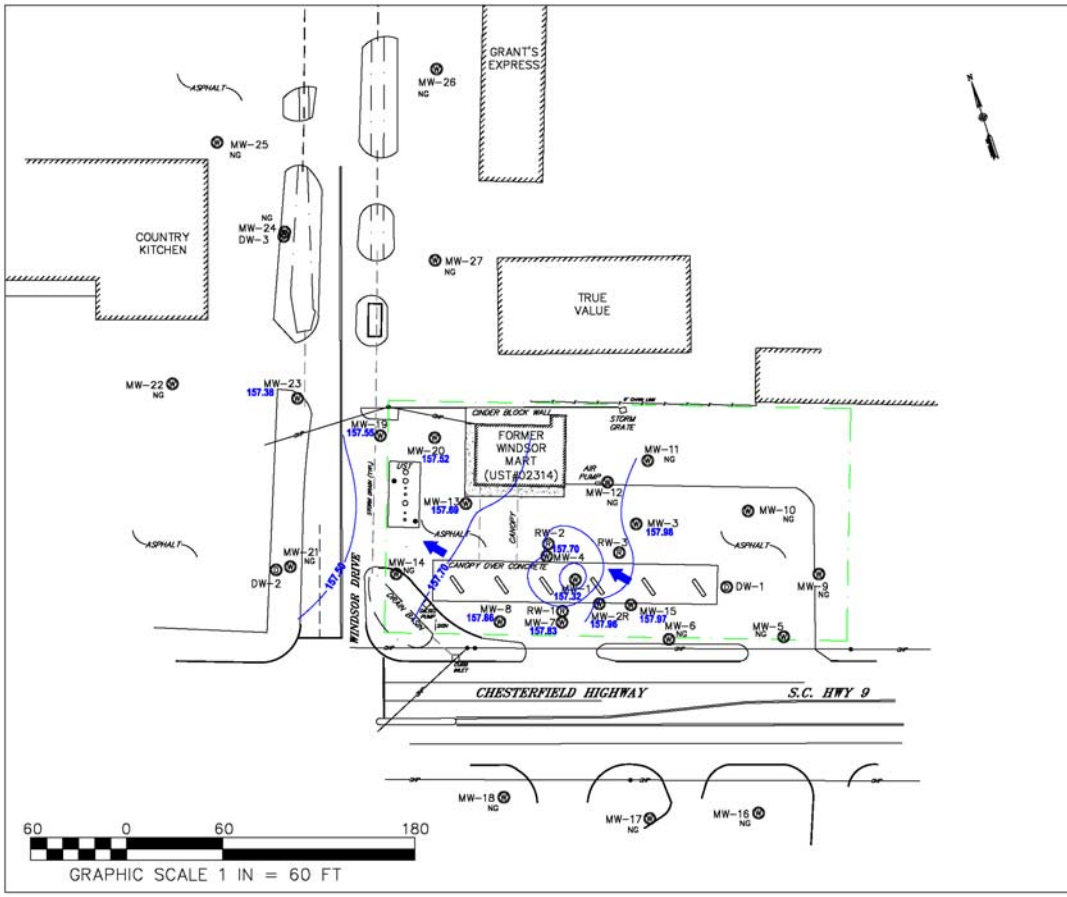
RED INDICATES CONTAMINANTS EXCEED RBSLs
NS = NO SAMPLE
SAMPLES COLLECTED JANUARY 3, 2017
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES CLIENTS FIRST ALWAYS

FIGURE 4B
GROUNDWATER COC (OXY) MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9H	02314
SCALE 1" = 60'	DATE January 2017



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

NG = NOT GAUGED

157.55 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)

157.70 GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED JANUARY 3, 2017

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW 1)

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FIGURE 5
SITE POTENTIOMETRIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9H	02314
SCALE 1" = 60'	DATE January 2017

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

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 / 3 /2017
Field Personnel	MT JK
General Weather	clear
Ambient Air Temperature	60°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-1	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol	
Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	20.0	ft
Depth to Groundwater (nearest 0.01')	15.96	ft
Length of Water Column	4.04	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield	Low ☐ Medium ☐ High ☐	

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.0

Volume (gal)	initial	Sparge									
Time (military)	1135										
pH (su)	5.51										
Spec Conductivity (mS/cm)	0.294										
Water Temperature (°C)	22.3										
Turbidity (NTU)	44.2										
Dissolved Oxygen (mg/L)	1.37										

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

STRONG ODOR

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 /3 /2017
Field Personnel	MT JK
General Weather	WT ~~[illegible]~~ cloudy
Ambient Air Temperature	40.

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √(time)	

Monitoring Well Information

Well ID	02314 - MW-2R		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.3-20.3	ft	
Total Well Depth (nearest 0.1')	20.3	ft	
Depth to Groundwater (nearest 0.01')	15.96	ft	
Length of Water Column	4.34	ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			20.3
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)	initial / sample									
Time (military)	1205									
pH (su)	6.04									
Spec Conductivity (mS/cm)	0.068									
Water Temperature (°C)	20.7									
Turbidity (NTU)	0.8									
Dissolved Oxygen (mg/L)	2.22									

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

STRONG ODOR

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 / 3 /2017
Field Personnel	MT JK
General Weather	cloudy
Ambient Air Temperature	60°

Monitoring Well Information

Well ID	02314 - MW-3
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	2	in
Screened Interval	10 - 20	ft
Total Well Depth (nearest 0.1')	20.0	ft
Depth to Groundwater (nearest 0.01')	13.45	ft
Length of Water Column	6.55	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.0

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Volume (gal)	initial	sample									
Time (military)	1235										
pH (su)	5.11										
Spec Conductivity (mS/cm)	0.066										
Water Temperature (°C)	22.5										
Turbidity (NTU)	36.1										
Dissolved Oxygen (mg/L)	1.20										

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

DUP @ 1237

strong odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 /3 /2017
Field Personnel	MTK
General Weather	clear
Ambient Air Temperature	60.

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-4	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol	
Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	20.0	ft
Depth to Groundwater (nearest 0.01')	15.69	ft
Length of Water Column	4.31	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield	Low ☐ Medium ☐ High ☐	

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.0

Volume (gal)	initial	Sample								
Time (military)	1145									
pH (su)	5.02									
Spec Conductivity (mS/cm)	0.143									
Water Temperature (°C)	22.3									
Turbidity (NTU)	3.4									
Dissolved Oxygen (mg/L)	2.93									

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

STRONG odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 /3 /2017
Field Personnel	MT JK
General Weather	Cloud
Ambient Air Temperature	40°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-7
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	2	in
Screened Interval	10.3 - 20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	10.37	ft
Length of Water Column	3.93	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	initial	Sample									
Time (military)	1125										
pH (su)	0.076 J										
Spec Conductivity (mS/cm)	4.37										
Water Temperature (°C)	22.7										
Turbidity (NTU)	17.7										
Dissolved Oxygen (mg/L)	1.61										

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Slight odor

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 / 3 /2017
Field Personnel	MT JK
General Weather	cloudy
Ambient Air Temperature	60.

Monitoring Well Information

Well ID	02314 - MW-8
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	15.93	ft
Length of Water Column	4.37	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer / pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Volume (gal)	initial	sample							
Time (military)	1225								
pH (su)	4.83								
Spec Conductivity (mS/cm)	0.042								
Water Temperature (°C)	22.4								
Turbidity (NTU)	0.0								
Dissolved Oxygen (mg/L)	1.71								

Well Condition Information

-overall condition acceptable? top of casing is warped previously by car.
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

slight odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 / 3 /2017
Field Personnel	MT JC
General Weather	cloudy
Ambient Air Temperature	60°

Monitoring Well Information

Well ID	02314 - MW-B
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	2	in
Screened Interval	10.3 - 20.3	ft
Total Well Depth (nearest 0.1')	~~20.3~~ 20.3 MT	ft
Depth to Groundwater (nearest 0.01')	14.95	ft
Length of Water Column	5.35	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Volume (gal)	Initial	Sample									
Time (military)	1245										
pH (su)	0.051	MT									
Spec Conductivity (mS/cm)	4.89	MT									
Water Temperature (°C)	22.3										
Turbidity (NTU)	0.3										
Dissolved Oxygen (mg/L)	1.28										

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

STRONG odor

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 / 3 /2017
Field Personnel	MT JK
General Weather	cloudy
Ambient Air Temperature	62°

Monitoring Well Information

Well ID	02314 - MW-15
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	15.88	ft
Length of Water Column	4.42	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Volume (gal)	initial/sample										
Time (military)	1215										
pH (su)	5.78										
Spec Conductivity (mS/cm)	0.034										
Water Temperature (°C)	20.6										
Turbidity (NTU)	145										
Dissolved Oxygen (mg/L)	5.08										

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Slight odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 /3 /2017
Field Personnel	MM UK
General Weather	Cloudy
Ambient Air Temperature	40°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Monitoring Well Information

Well ID	02314 - MW-17	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol	
Well Diameter	2	in
Screened Interval	12.3 - 22.3	ft
Total Well Depth (nearest 0.1')	22.3	ft
Depth to Groundwater (nearest 0.01')	13.95	ft
Length of Water Column	8.35	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield	Low ☐ Medium ☐ High ☐	

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

22.3

Volume (gal)	initial	Sample									
Time (military)	1305										
pH (su)	6.00										
Spec Conductivity (mS/cm)	0.354										
Water Temperature (°C)	23.0										
Turbidity (NTU)	158										
Dissolved Oxygen (mg/L)	1.21										

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

strong odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 /3 /2017
Field Personnel	MT JK
General Weather	Cloudy
Ambient Air Temperature	60°

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √(time)	

Monitoring Well Information

Well ID	02314 - MW-20		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	12.2-22.2	ft	
Total Well Depth (nearest 0.1')	22.2	ft	
Depth to Groundwater (nearest 0.01')	14.30	ft	
Length of Water Column	7.90	ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			22.2
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)	initial / Sample										
Time (military)	1255										
pH (su)	4.47										
Spec Conductivity (mS/cm)	0.133										
Water Temperature (°C)	22.9										
Turbidity (NTU)	144										
Dissolved Oxygen (mg/L)	1.49										

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Strong odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 /3 /2017
Field Personnel	MT VK
General Weather	Cloudy
Ambient Air Temperature	60s

Monitoring Well Information

Well ID	02314 - MW-23
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	2	in
Screened Interval	11.2 - 21.2	ft
Total Well Depth (nearest 0.1')	21.2	ft
Depth to Groundwater (nearest 0.01')	13.65	ft
Length of Water Column	7.55	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

21.2

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Volume (gal)	initial	Sample		
Time (military)	1315			
pH (su)	4.86			
Spec Conductivity (mS/cm)	0.059			
Water Temperature (°C)	22.4			
Turbidity (NTU)	40.3			
Dissolved Oxygen (mg/L)	1.84			

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

STRONG odor

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1/3/2017
Field Personnel	MTJK
General Weather	RAIN
Ambient Air Temperature	60°

Monitoring Well Information

Well ID	02314 - RW-1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	29.9	ft
Depth to Groundwater (nearest 0.01')	16.11	ft
Length of Water Column	13.79	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

29.9

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √(time)	

Volume (gal)	initial	sample									
Time (military)	1115										
pH (su)	4.26										
Spec Conductivity (mS/cm)	0.243										
Water Temperature (°C)	21.4										
Turbidity (NTU)	8.1										
Dissolved Oxygen (mg/L)	2.62										

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

STRONG odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9H
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	1 / 3 /2017
Field Personnel	MT AK
General Weather	Rain
Ambient Air Temperature	40.

Monitoring Well Information

Well ID	02314 - RW-2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, & Ethanol

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	30.0	ft
Depth to Groundwater (nearest 0.01')	15.47	ft
Length of Water Column	14.53	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.0

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

pH Meter	Horiba U-52-2	Conductivity Meter	Horiba U-52-2
Serial Number	VWKAUMKJ	Serial Number	VWKAUMKJ
Calibration Constant	4.00	Calibration Constant	4.49 mS/cm
Calibration Constant	6.86	Calibration Constant	53.0 mS/cm
Calibration Constant	9.18	Calibration Constant	58.7 mS/cm
Last Calibration (time)	1105	Last Verification √ (time)	

Volume (gal)	initial	Sample							
Time (military)	1155								
pH (su)	5.01								
Spec Conductivity (mS/cm)	0.139								
Water Temperature (°C)	21.4								
Turbidity (NTU)	7.8								
Dissolved Oxygen (mg/L)	3.64								

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

STRONG odor

TERRY Environmental Services
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Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 1/3/17 1105 **Inspector:** MT

Solution Manufacturer: Aurical **Lot Number:** 12085 **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	± 0.07 mS/cm
Turbidity: 0.0 NTU	0.4 NTU	± 0.4 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	18.8 °C	18.8 °C	±0.0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Maruti kunjal 271.9F

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 1/3/17 1320 **Inspector:** MT

Solution Manufacturer: Aurical **Lot Number:** 12085 **Expiration Date:** 3/14/17

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.02	± 0.02
Conductivity: 4.49 mS/cm	4.45 mS/cm	± 0.04 mS/cm
Turbidity: 0.0 NTU	0.2 NTU	± 0.2 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	19.3 °C	19.3 °C	± 0.0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Maruti Rental 2171.9H

SHEALY ENVIRONMENTAL SERVICES, INC.

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

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

Case Narrative
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.

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
008	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

Sample	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

Sample	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
008	02314-MW-15	Aqueous	tert-Amyl alcohol (TAA)	8260B	37000		ug/L	14
008	02314-MW-15	Aqueous	Benzene	8260B	8300		ug/L	14
008	02314-MW-15	Aqueous	Ethylbenzene	8260B	2800		ug/L	14
008	02314-MW-15	Aqueous	Naphthalene	8260B	570		ug/L	14
008	02314-MW-15	Aqueous	Toluene	8260B	37000		ug/L	14
008	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

Sample	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)

Volatile Organic Compounds by GC/MS

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

Parameter	CAS Number	Analytical 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 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **SA04127-002**
Description: **02314-MW-2R**
Matrix: **Aqueous**
Date Sampled: **01/03/2017 1205**
Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	01/05/2017 1443	JM1		30859
2	5030B	8260B	500	01/06/2017 1636	JM1		30984

Parameter	CAS Number	Analytical 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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance 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
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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"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.** Laboratory ID: **SA04127-003**

Description: **02314-MW-3** Matrix: **Aqueous**

Date Sampled: **01/03/2017 1235**

Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	01/05/2017 1505	JM1		30859

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**53**	**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**	**11**		**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**	**36**		**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	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
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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"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **SA04127-004**
Description: **02314-MW-4**
Matrix: **Aqueous**
Date Sampled: **01/03/2017 1145**
Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	01/05/2017 1549	JM1		30859

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**61000**		**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**	**660**		**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**	**3000**		**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**	**380**	**J**	**500**	**200**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**470**	**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**	**42000**		**500**	**200**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**17000**		**500**	**200**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
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J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
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Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **SA04127-005**
Description: **02314-MW-7**
Matrix: **Aqueous**
Date Sampled: **01/03/2017 1125**
Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	01/06/2017 0129	JJG		30932

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	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	200	ug/L	1
Benzene	**71-43-2**	**8260B**	**6100**		**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**	**300**	**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	ND		50000	20000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**3200**		**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**	**700**		**500**	**200**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	4000	ug/L	1
Toluene	**108-88-3**	**8260B**	**35000**		**500**	**200**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**20000**		**500**	**200**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
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Volatile Organic Compounds by GC/MS

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**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	01/06/2017 0151	JJG		30932

Parameter	CAS Number	Analytical 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	Q	Run 1 % 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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.** Laboratory ID: **SA04127-007**

Description: **02314-MW-13** Matrix: **Aqueous**

Date Sampled: **01/03/2017 1245**

Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	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**

Surrogate	Q	Run 1 % Recovery	Acceptance 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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	01/06/2017 0235	JJG		30932

Parameter	CAS Number	Analytical 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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		99	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"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **SA04127-009**
Description: **02314-MW-19**
Matrix: **Aqueous**
Date Sampled: **01/03/2017 1305**
Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	01/06/2017 0257	JJG		30932
2	5030B	8260B	200	01/07/2017 0133	ECP		31032

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance 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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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

Parameter	CAS Number	Analytical 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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		99	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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

Parameter	CAS Number	Analytical 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**

Surrogate	Q	Run 1 % Recovery	Acceptance 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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.** Laboratory ID: **SA04127-012**

Description: **02314-RW-1** Matrix: **Aqueous**

Date Sampled: **01/03/2017 1115**

Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	500	01/07/2017 0155	ECP		31032

Parameter	CAS Number	Analytical 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	Run 2 % Recovery	Acceptance 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
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"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.** Laboratory ID: **SA04127-013**

Description: **02314-RW-2** Matrix: **Aqueous**

Date Sampled: **01/03/2017 1155**

Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		100	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"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.**
Laboratory ID: **SA04127-014**
Description: **02314-MW-3 DUP**
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
1	5030B	8260B	5	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	Run 1 % Recovery	Acceptance 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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Terry Environmental Services, Inc.** Laboratory ID: **SA04127-015**

Description: **02314-FB-1** Matrix: **Aqueous**

Date Sampled: **01/03/2017 1110**

Date Received: **01/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/05/2017 2146	JJG		30932

Parameter	CAS Number	Analytical 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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		92	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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

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	1	01/05/2017 2208	JJG		30932

Parameter	CAS Number	Analytical 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	Q	Run 1 % Recovery	Acceptance 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
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: 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	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		104	70-130

Volatile Organic Compounds by GC/MS - LCS

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

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: 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
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)	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
Methyl tertiary butyl ether (MTBE)	380	25000	23000		500	89	60-140	01/05/2017 1656
Naphthalene	470	25000	24000		500	94	62-136	01/05/2017 1656
tert-butyl alcohol (TBA)	ND	500000	520000		500	104	70-130	01/05/2017 1656
Toluene	42000	25000	67000		500	99	75-125	01/05/2017 1656
Xylenes (total)	17000	50000	70000		500	105	70-130	01/05/2017 1656

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		101	70-130

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

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: SA04127-004MD
Batch: 30859
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)	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	Acceptance Limit
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 ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ30932-001
Batch: 30932
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	01/05/2017 2105
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	01/05/2017 2105
Toluene	ND		1	1.0	0.40	ug/L	01/05/2017 2105
Xylenes (total)	ND		1	1.0	0.40	ug/L	01/05/2017 2105

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		104	70-130

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

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

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: 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	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ30984-002
Batch: 30984
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	50	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
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: 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	% Rec	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
Xylenes (total)	100	100		1	104	70-130	01/06/2017 2048

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

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

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ31032-002
Batch: 31032
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

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

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

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

Chain of Custody
and
Miscellaneous Documents

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

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 64434

Client: TERRY ENVIRONMENTAL	Report to Contact: KELLY CONE	Telephone No. / E-mail: KCONE@TERRYENVIRONMENTAL.COM	Quote No.
Address: P.O. BOX 25	Sampler's Signature: x M. Jr	Analysis (Attach list if more space is needed)	Page 1 of 2
City: SUMMERVILLE State: SC Zip Code: 29484	Printed Name: M. Montgomery Taylor		
Project Name: MARVIN KUNTZ (F WINDSOR MART)			SA04127
Project No.: 2171.9H	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# Containers	Matrix: Aqueous	Matrix: Solid	Matrix: Other	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	ASCR Na	BTEX/MTBE + 1,2DCA + Ethanol
D2314 - MW-1	1/3/17	1135	6	X						3			3
- MW-2R		1205											
- MW-3		1235											
- MW-4		1145											
- MW-7		1125											
- MW-8		1226											
- MW-13		1245											
- MW-15		1215											
- MW-19		1305											
- MW-20		1255											

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Relinquished by	Date	Time	Received by	Date	Time
1.	M. Montgomery Taylor	1/3/17	1715		1/3/17	1715
2.		1/3/17	1715		1/3/17	1715
3.		1/4/17	1435		1/4/17	1435
4.		1/4/17	1600	Laboratory received by:	1-4-17	1600

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle): (Yes) No Ice Pack — Receipt Temp. 2.7 °C

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

SHEALY ENVIRONMENTAL SERVICES, INC.

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

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY **Chain of Custody Record**

106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 64448

Client	Report to Contact	Telephone No. / E-mail	Quote No.
TERRY Environmental	Kelly Cone	KCone@terryenvironmental.com	

Address: P.O. Box 25 — Sampler's Signature: X — Analysis (Attach list if more space is needed) — Page 2 of 2

City: Summerville — State: SC — Zip Code: 29484 — Printed Name: M Montgomery Taylor

Project Name: Marathon Pintail (E. Windsor Mkt) — SA04127

Project No.: 2171.9H — P.O. No.:

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Soil	Matrix: Solid/Waste	No. of Containers by Preservative Type: Unpres	H2SO4	HCl	HNO3	NaOH	SAS Kit	BTEX/MTBE/1,2DCA-TOX/TPH-EDB/MTBE	Remarks / Cooler I.D.
02314 - MW-23	1/3/17	1315	G	X					3				3	
02314 - RW-1	1/3/17	1115												
02314 - RW-2	1/3/17	1155												
02314 - MW-3-DUP	1/3/17	1237												
02314 - FB-1	1/3/17	1110	↓	↓					↓				↓	
02314 - TB-1	-	-	G	X					2				2	

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify):

	Relinquished by	Date	Time	Received by	Date	Time
1.		1/3/17	1715		1/3/17	1715
2.		1/3/17	1715		1/3/17	1715
3.		1/4/17	1435		1/4/17	1435
4.		1/4/17	1600	4. Laboratory received by	1-4-17	1600

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on Ice (Circle) (Yes) No Ice Pack — Receipt Temp. 2.7 °C

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

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

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MEI01SC-07

Page 1 of 1
Effective Date: 11/29/2016
Expiry Date: 11/29/2021

Sample Receipt Checklist (SRC)

Client: Terry Cooler Inspected by/date: SBE 1-4-17 Lot #: SA04127

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other

Yes ☐	No ☐		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

pH strip ID: Cl strip ID:
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
12.5/12.7 °C / / °C / / °C / / °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0.2°C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (<0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC >0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____
Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: SBE Verified by: _____ Date: 1-4-17

Comments: _____

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, 6.5 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

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

Contractor Checklist – Maruti Kundal (Former Windsor Mart)

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		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 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.

dhec
Healthy People Healthy Communities

JACKSON OIL COMPANY INC
755 SOUTH 4TH STREET
HARTSVILLE SC 29550

JAN 2 3 2019

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 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 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

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

UST 32 Tech DOCKETING

To: Quincy Hoffer (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number: UCC-0223

Facility Name: Maruti Kundal (Former Windsor Mart) UST Permit #: 02314
Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520
Responsible Party: Jackson Oil Company, Inc. Phone: 843-537-7080
RP Address: 755 South 4th Street, Hartsville, SC 29550
Property Owner (if different): n/a
Property Owner Address: n/a
Current Use of Property: Gas Station and Convenience Store (Corner Cupboard)

UST JAN 3 1 2018 PROGRAM

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

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

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

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

– Soil	– Water Supply Wells	– Air	2 Field Blank
32 Monitoring Wells	2 Surface Water	2 Duplicate	2 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: – Estimated Footage: – feet per point
# of deep points proposed: – Estimated Footage: – feet per point
Field Screening Methodology: –

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: – Estimated Footage: – feet per point
# of deep wells: – Estimated Footage: – feet per point
# of recovery wells: – Estimated Footage: – feet per point
Comments, if warranted: –

UST Permit #: 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: 110 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.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
Healthy People. Healthy Communities

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
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	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel (10, 17)	2	each	$423.00	$846.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	32	per well/receptor	$60.00	$1,920.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater NP, SW (2), or Dup (2)	4	per well/receptor	$28.00	$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	$0.00
H1. Field Blank	2	each	$24.60	$49.20

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	40	per sample	$122.00		$4,880.00
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	38	per sample	$45.20		$1,717.60
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05		$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75		$0.00
N. EDB (504.1)		per sample	$79.50		$0.00
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	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)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Management	12%	percent	$9,736.40		$1,168.37
TOTAL					$10,904.77

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

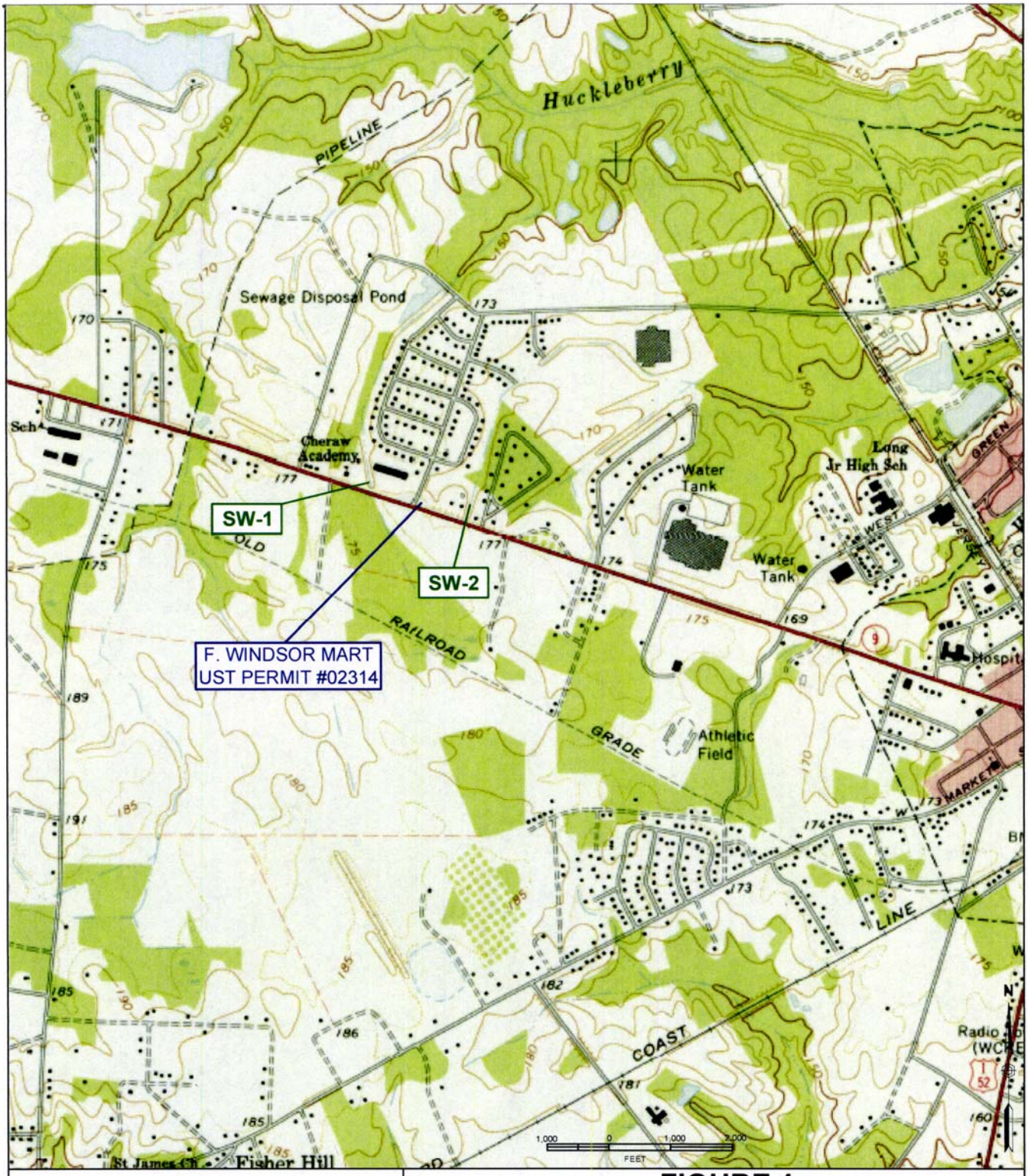


FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

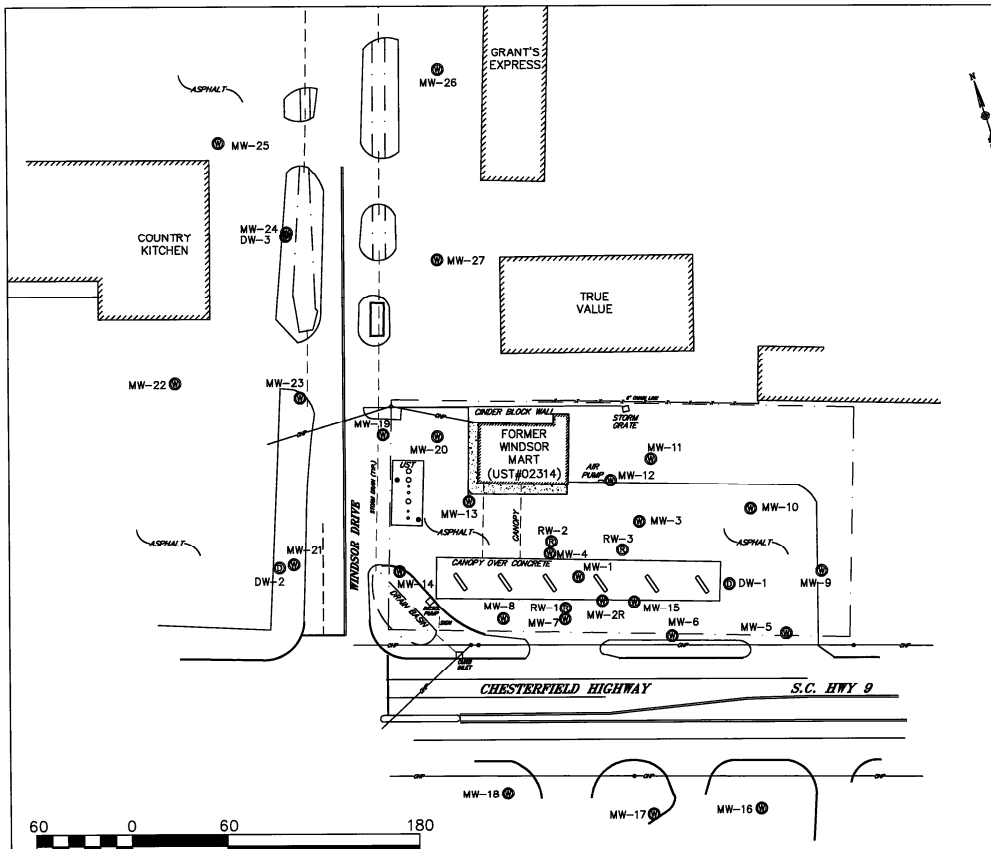
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9I	Figure 1 Topo Map	

SCALE: As Shown

DATE: January 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- OHP POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

TERRY ENVIRONMENTAL SERVICES
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FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9I	02314
SCALE 1" = 60'	DATE January 2018

dhec
Healthy People. Healthy Communities.

FEB 13 2018

JACKSON OIL COMPANY INC
755 S 4TH 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
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 56287

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7
HOFFERQM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	2.0000	$423.000	846.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	32.0000	$60.000	1,920.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	4.0000	$28.000	112.00
		H1	FIELD 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						
		AA	WASTEWATER	110.0000	$0.560	61.60
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$9,736.400	1,168.37
					Total Amount	10,904.77

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 4-2-18

Permit Number 02314

Project Manager Quincy Hoffer

Name of Contractor TES

UST Certification Number _____

Docket Number 34 Ltr

Scanned _____

GWM report

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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

KELLY K. CONE
REGISTERED
No.
2509
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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
Certification:	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.

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 SCDHEC UST PERMIT #02314							
02314-MW1	**3/6/2018**						
	Free Product (1.45 ft.)						
02314-MW2R	**3/6/2018**						
	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**						
	Free Product (1.13 ft.)						
02314-MW5	**3/5/2018**						
	Dry						
02314-MW6	**3/6/2018**						
	Dry						
02314-MW7	**3/6/2018**						
	Free Product (0.03 ft.)						
02314-MW8	**3/6/2018**						
	Insufficient Volume for Parameters						
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**						
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)	0.080	0.084	0.085	0.085			
Water Temperature (°C)	20.1	20.9	20.9	20.9			
Turbidity (NTU)	212	204	201	201			
Dissolved Oxygen (mg/L)	4.86	3.59	3.59	3.59			
02314-MW12	**3/5/2018**						
Volume (gal)	Initial	0.5	1.0	1.5/Sample			
Time (military)	1611	1614	1617	1620			
pH (su)	5.03	5.30	5.31	5.32			
Spec Conductivity (mS/cm)	0.113	0.110	0.109	0.108			
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			

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**						
	Insufficient Volume for Parameters						
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**						
	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**						
	Free Product (0.20 ft.)						
02314-MW20	**3/6/2018**						
Volume (gal)	Initial	0.75	1.5	2.25/Sample	Duplicate (DUP)		
Time (military)	0850	0853	0856	0859	0901		
pH (su)	5.27	5.44	5.42	5.42			
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**						
Volume (gal)	Initial	0.75	1.5	2.25/Sample			
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**						
Volume (gal)	Initial	0.75	1.5	2.25/Sample			
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			
Dissolved Oxygen (mg/L)	6.25	2.79	2.76	2.75			

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**						
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**						
Volume (gal)	Initial	0.75	1.5	2.25/Sample			
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**						
Volume (gal)	Initial	1.0	2.0	3.0/Sample			
Time (military)	1530	1533	1536	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**						
Volume (gal)	Initial	3.25	6.5/Dry/Sample				
Time (military)	1800	1805	1810				
pH (su)	5.66	6.03	6.29				
Spec Conductivity (mS/cm)	0.168	0.161	0.159				
Water Temperature (°C)	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**						
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 Product (0.29 ft.)						
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)	29.6	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

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
02314-MW1	3/19/1997	173.28	10 to 20	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
	9/26/2014			19.60	16.82	**2.78**	153.68
	2/2/2015			Free Product (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
02314-MW2	6/17/1997	100.06	10 to 20	16.04	n/a	n/a	84.02
	12/9/2013			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
	1/3/2017			15.96	n/a	n/a	-15.96
	3/6/2018			Dry			
02314-MW3	6/17/1997	171.43	10 to 20	13.64	n/a	n/a	157.79
	12/9/2013			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)			
	1/3/2017			13.45	n/a	n/a	157.98
	3/6/2018			17.07	n/a	n/a	154.36
02314-MW4	6/17/1997	173.39	10 to 20	15.75	n/a	n/a	157.64
	12/9/2013			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)			
	1/3/2017			15.69	n/a	n/a	157.70
	3/6/2018			19.95	18.82	1.13	153.44
02314-MW5	9/29/2014	174.97	9.9 to19.9	18.51	n/a	n/a	156.46
	2/2/2015			17.10	n/a	n/a	157.87
	1/3/2017			Not Gauged			
	3/5/2018			Dry			
02314-MW6	9/29/2014	174.57	10.1 to 20.1	18.17	n/a	n/a	156.40
	2/2/2015			16.55	n/a	n/a	158.02
	1/3/2017			Not Gauged			
	3/6/2018			Dry			
02314-MW7	9/29/2014	174.20	10.3 to 20.3	18.09	17.86	**0.23**	156.11
	2/2/2015			Free Product (0.27 ft)			
	1/3/2017			16.37	n/a	n/a	157.83
	3/6/2018			19.86	19.83	0.03	154.34
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
	1/3/2017			15.93	n/a	n/a	157.86
	3/6/2018			19.45	n/a	n/a	154.34
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
	1/3/2017			Not 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

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
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
	1/3/2017			Not Gauged			
	3/5/2018			17.79	n/a	n/a	154.30
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
	1/3/2017			Not Gauged			
	3/5/2018			17.83	n/a	n/a	154.24
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
	1/3/2017			Not Gauged			
	3/5/2018			18.31	n/a	n/a	154.23
02314-MW13	9/29/2014	172.64	10.3 to 20.3	17.20	n/a	n/a	155.44
	2/2/2015			15.55	n/a	n/a	157.09
	1/3/2017			14.95	n/a	n/a	157.69
	3/6/2018			18.48	n/a	n/a	154.16
02314-MW14	9/29/2014	172.88	10.3 to 20.3	16.75	n/a	n/a	156.13
	2/2/2015			15.15	n/a	n/a	157.73
	1/3/2017			Not Gauged			
	3/5/2018			20.39	19.41	0.98	152.49
02314-MW15	9/29/2014	173.85	10.3 to 20.3	17.90	n/a	n/a	155.95
	2/2/2015			15.85	n/a	n/a	158.00
	1/3/2017			15.88	n/a	n/a	157.97
	3/6/2018			19.43	n/a	n/a	154.42
02314-MW16	11/19/2014	176.97	16.0 to 26.0	21.50	n/a	n/a	155.47
	2/2/2015			18.69	n/a	n/a	158.28
	1/3/2017			Not Gauged			
	3/5/2018			22.29	n/a	n/a	154.68
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
	1/3/2017			Not Gauged			
	3/5/2018			Dry			
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
	1/3/2017			Not Gauged			
	3/5/2018			20.97	n/a	n/a	154.62
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
	1/3/2017			13.95	n/a	n/a	157.55
	3/6/2018			17.22	17.02	0.20	154.28
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
	1/3/2017			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

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
02314-MW21	2/2/2015	173.97	13.7 to 23.7	16.55	n/a	n/a	157.42
	1/3/2017			Not Gauged			
	3/5/2018			19.88	n/a	n/a	154.09
02314-MW22	2/2/2015	171.95	12 to 22	14.65	n/a	n/a	157.30
	1/3/2017			Not Gauged			
	3/5/2018			17.98	n/a	n/a	153.97
02314-MW23	2/2/2015	171.03	11.2 to 21.2	13.72	n/a	n/a	157.31
	1/3/2017			13.65	n/a	n/a	157.38
	3/6/2018			17.04	n/a	n/a	153.99
02314-MW24	2/2/2015	169.78	11 to 21	12.54	n/a	n/a	157.24
	1/3/2017			Not Gauged			
	3/5/2018			15.90	n/a	n/a	153.88
02314-MW25	2/2/2015	170.08	11 to 21	13.00	n/a	n/a	157.08
	1/3/2017			Not Gauged			
	3/5/2018			16.26	n/a	n/a	153.82
02314-MW26	2/2/2015	169.21	10.4 to 20.4	12.24	n/a	n/a	156.97
	1/3/2017			Not Gauged			
	3/5/2018			15.42	n/a	n/a	153.79
02314-MW27	2/2/2015	168.95	10 to 20	11.81	n/a	n/a	157.14
	1/3/2017			Not Gauged			
	3/5/2018			14.97	n/a	n/a	153.98
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
	1/3/2017			Not Gauged			
	3/5/2018			17.33	n/a	n/a	156.26
02314-DW2	2/2/2015	174.37	44.6 to 49.6	16.59	n/a	n/a	157.78
	1/3/2017			Not Gauged			
	3/5/2018			19.82	n/a	n/a	154.55
02314-DW3	2/2/2015	169.93	44.6 to 49.6	13.72	n/a	n/a	156.21
	1/3/2017			Not Gauged			
	3/5/2018			16.50	n/a	n/a	153.43
02314-RW1	1/3/2017	Unknown	10 to 30	16.11	n/a	n/a	n/a
	3/6/2018			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
	3/6/2018			19.93	18.63	1.30	n/a
02314-RW3	1/3/2017	Unknown	10 to 30	Not Gauged			
	3/6/2018			18.94	n/a	n/a	n/a

Notes:

All Data Prior to December 2013 collected by others

[(1)] TOC = Top of casing relative to an assumed data

* = Measured relative to TOC

**Corrected Elevation calculated using following equation:

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

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9I
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**
02314-MW1	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	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (3.34 ft.)																
	9/26/2014	Free Product (2.78 ft.)																
	1/3/2017	**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
	3/6/2018	Free Product (1.45 ft.)																
02314-MW2	6/17/1997	**29**	1.25	1.13	136.1	5.5	13.7	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Could Not Find																
	9/29/2014	Could Not Find																
02314-MW2R	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
	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
	3/6/2018	Dry																
02314-MW3	6/17/1997	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
	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
	9/26/2014	Free Product (0.95 ft.)																
	1/3/2017	**11**	17	36	260	**28**	<5.0	<5.0	--	--	<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
02314-MW4	6/17/1997	**5,430**	**14,300**	**1,960**	**19,360**	**1,090**	<2,500	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (1.89 ft.)																
	9/26/2014	Free Product (3.11 ft.)																
	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	Free Product (1.13 ft.)																
02314-MW5	9/29/2014	**13**	110	16	100	4.8	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																
	3/5/2018	Dry																
02314-MW6	9/29/2014	1.5	8.8	2.6	21	<1.0	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	60	<5.0
	1/3/2017	Not Sampled																
	3/6/2018	Dry																
02314-MW7	9/29/2014	Free Product (0.23 ft.)																
	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
	3/6/2018	Free Product (0.03 ft.)																
02314-MW8	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
	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
02314-MW9	9/29/2014	0.51J	3.0	0.54J	3.0	<1.0	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																
	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-MW10	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
	1/3/2017	Not Sampled																
	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

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9I
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**
02314-MW11	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
	1/3/2017	Not Sampled																
	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-MW12	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
	1/3/2017	Not Sampled																
	3/5/2018	**110**	200	47	240	21	<1.0	<1.0	<0.019	--	<10	44	0.79J	<1.0	<20	<100	**3,200**	<5.0
02314-MW13	9/29/2014	**6,400**	**21,000**	**1,700**	8,600	**300**	**110J**	<200	--	--	<2,000	<4,000	**240**	<200	<4,000	<20,000	**5,400**	<1,000
	1/3/2017	**3,400**	**12,000**	**1,300**	9,100	**320**	<100	<100	--	--	<1,000	<2,000	<100	<100	<2,000	<10,000	**10,000**	<500
	3/6/2018	**3,400**	**14,000**	**1,800**	**11,000**	**440**	<100	<100	<0.019	--	<1,000	<2,000	66J	<100	<2,000	<10,000	**5,100**	<500
02314-MW14	9/29/2014	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
	1/3/2017	Not Sampled																
	3/5/2018	Free Product (0.98 ft.)																
02314-MW15	9/29/2014	**2,800**	**12,000**	**750**	5,900	**120J**	<200	<200	--	--	<2,000	<4,000	<200	<200	<4,000	<20,000	**5,100**	<1,000
	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
	3/6/2018	**5,300**	**17,000**	**2,000**	8,600	**340**	<200	<200	<0.020	--	<2,000	<4,000	<200	<200	<4,000	<20,000	**10,000**	<1,000
02314-MW16	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
	1/3/2017	Not Sampled																
	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-MW17	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
	1/3/2017	Not Sampled																
	3/5/2018	Dry																
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
	1/3/2017	Not Sampled																
	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-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
	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
	3/6/2018	Free Product (0.20 ft.)																
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
	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
	3/6/2018	**2,300**	**3,600**	350	4,200	**180**	<50	<50	<0.019	--	<500	<1,000	43J	<50	<1,000	<5,000	**4,600**	<250
02314-MW20 (DUP)	3/6/2018	**2,200**	**3,300**	340	4,000	**170**	<50	<50	<0.019	--	<500	<1,000	<50	<50	<1,000	<5,000	**4,800**	<250
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
	1/3/2017	Not Sampled																
	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	16J	<5.0
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
	1/3/2017	Not Sampled																
	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-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
	1/3/2017	**900**	**2,200**	300	2,300	**62**	<50	<50	--	--	<500	<1,000	<50	<50	<1,000	<5,000	**2,300**	<250
	3/6/2018	**1,800**	**5,500**	520	3,200	**110**	<50	<50	<0.019	--	<500	<1,000	<50	<50	<1,000	<5,000	**6,800**	<250

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GROUNDWATER LABORATORY DATA
WINDSOR MART
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TERRY PROJECT #2171.9I
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**
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																
	3/5/2018	**4,000**	**11,000**	**740**	4,000	**91J**	<100	<100	<0.019	--	<1,000	<2,000	48J	<100	<2,000	<10,000	**3,400**	<500
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																
	3/5/2018	**220**	<5.0	<5.0	90	9.1	<5.0	<5.0	<0.019	--	<50	<100	3.2J	<5.0	<100	<500	**620**	<25
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																
	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-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	Not Sampled																
	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
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
	1/3/2017	Not Sampled																
	3/5/2018	<1.0	<1.0	<1.0	0.42J	<1.0	<1.0	<1.0	<0.019	--	<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
	1/3/2017	Not Sampled																
	3/5/2018	1.7	1.5	<1.0	0.53J	<1.0	<1.0	<1.0	<0.020	--	<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
	1/3/2017	Not Sampled																
	3/5/2018	0.79J	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
02314-RW1	1/3/2017	**13,000**	**43,000**	**2,800**	**19,000**	**550**	**310J**	<500	--	--	**280J**	<10,000	**1,400**	<500	<10,000	<50,000	**49,000**	<2,500
	3/6/2018	Free Product (0.29 ft.)																
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
	3/6/2018	Free Product (1.30 ft.)																
02314-RW3	1/3/2017	Not Sampled																
	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
02314-RW3 (DUP)	3/6/2018	**1,600**	**7,500**	**890**	5,000	**64J**	<100	<100	<0.019	--	<1,000	<2,000	<100	<100	<2,000	<10,000	**1,200J**	<500
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
	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																
	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-SW2	12/9/2013	Dry																
	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																
	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	150	<20	<5.0

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9I
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**
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

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-Dichloroethane
EDB = 1,2-Dibromoethane
TAME = t-amyl methyl ether or tert-Amyl methyl ether
TBA = t-Butanol 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-amyl 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

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

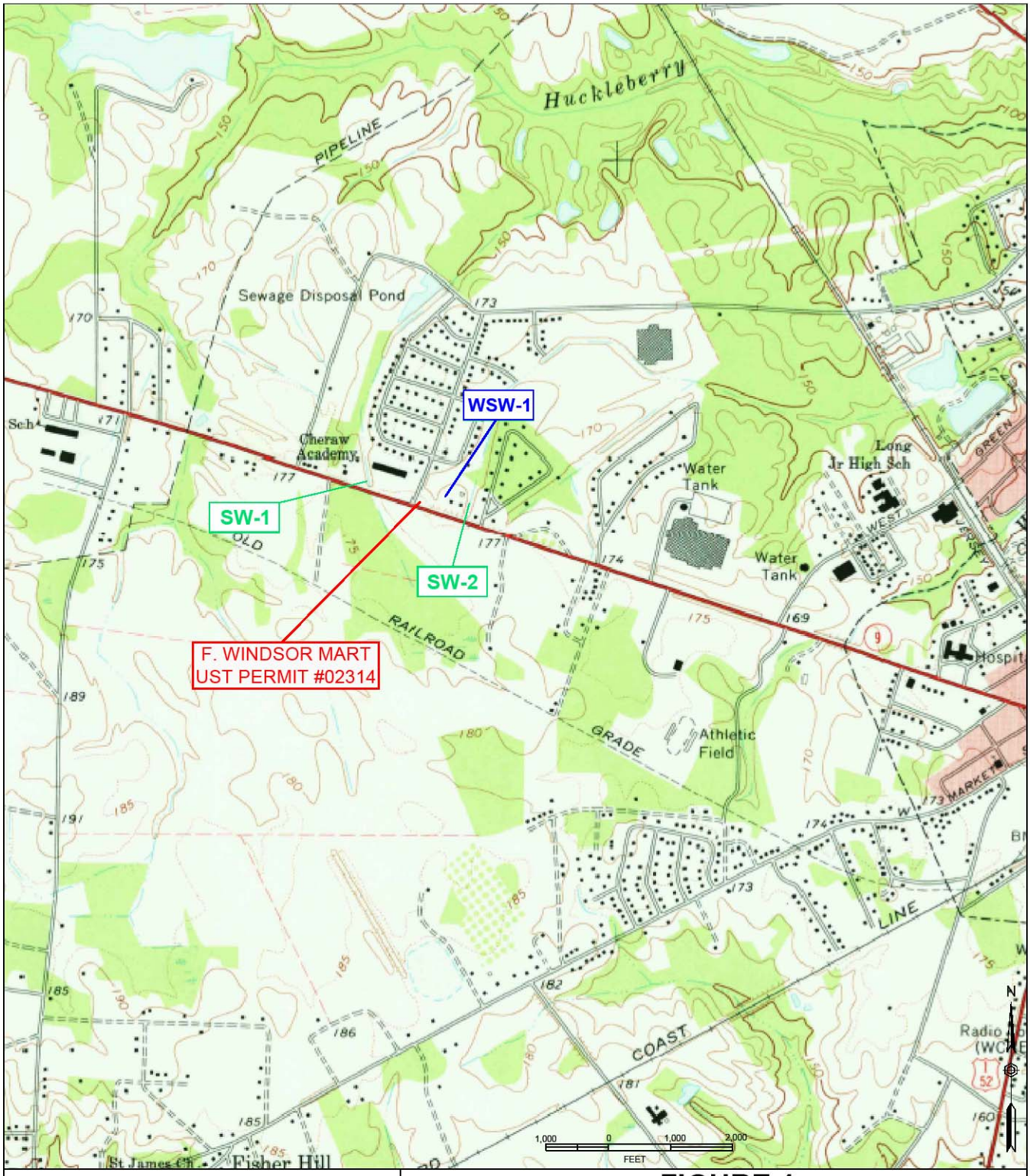
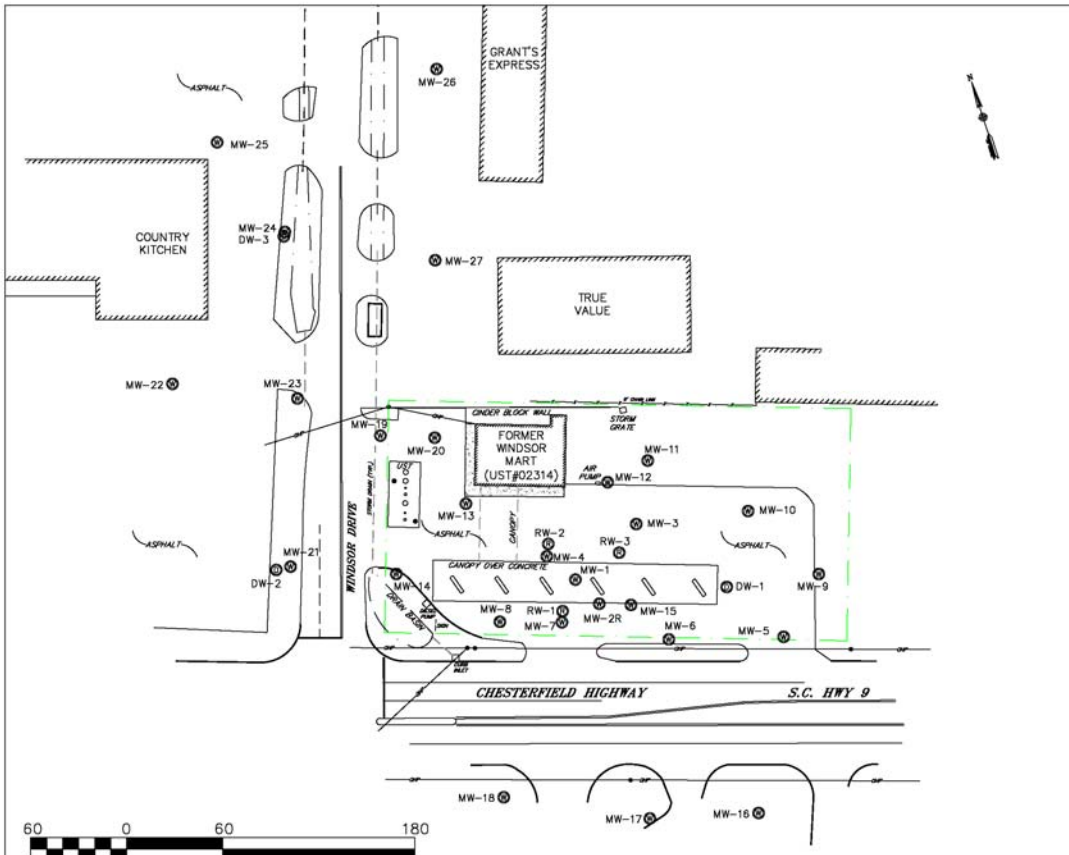


FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!	SIZE B	TERRY Project No. 2171.9I	DWG NO. Figure 1 Topo Map	REV
PO Box 25 Summerville, South Carolina 29484 (800) 325-0605 (843)-873-8200 fax: (843)-873-8765	SCALE: As Shown		DATE: March 2018	



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

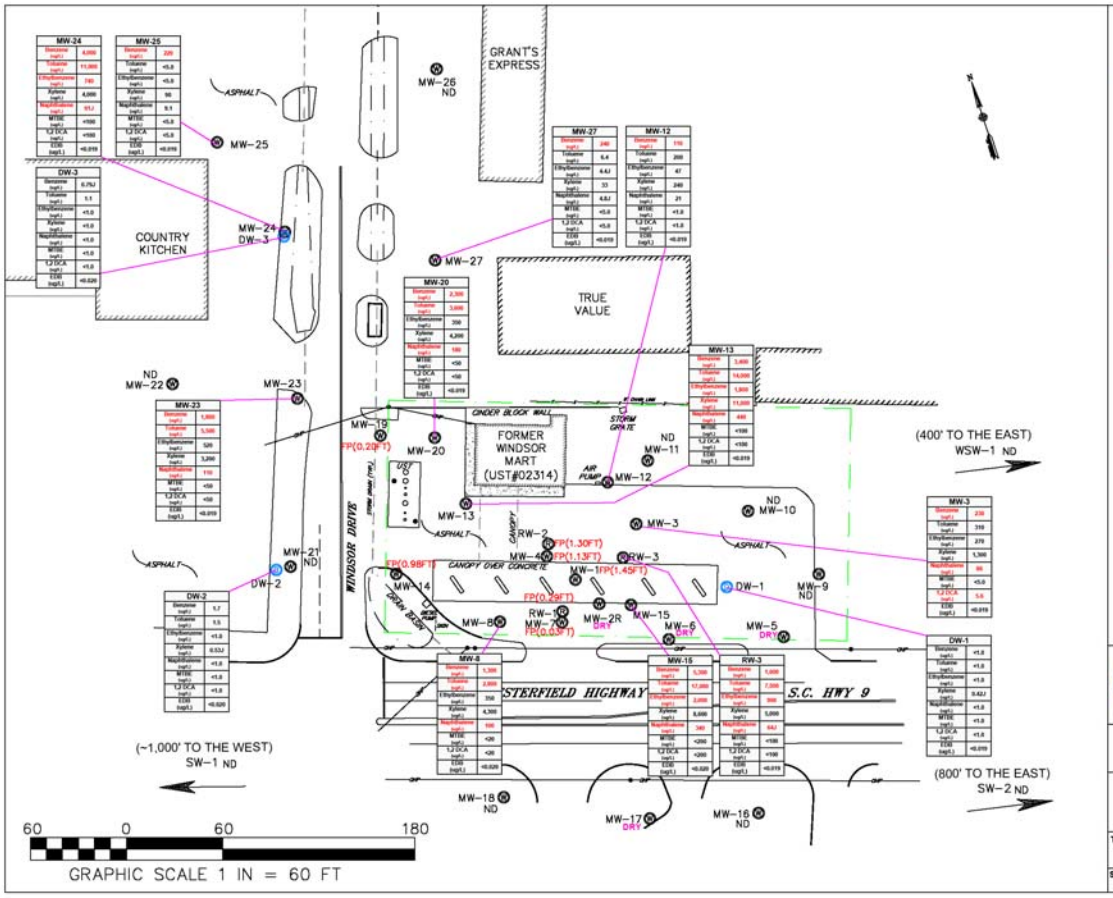
All MW, RW, and sample identifications are preceded by UST Permit #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9I	02314
SCALE 1" = 60'	DATE March 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

FP = FREE PRODUCT
EDB = 1,2-DIBROMOETHANE
MTBE = METHYL TERTIARY BUTYL ETHER
1,2 DCA = 1,2-DICHLOROETHANE
J = ESTIMATED VALUE
-- = PARAMETERS NOT ANALYZED
RED INDICATES CONTAMINANTS EXCEED RBSLs
ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

SAMPLES COLLECTED MARCH 5 & 6, 2018

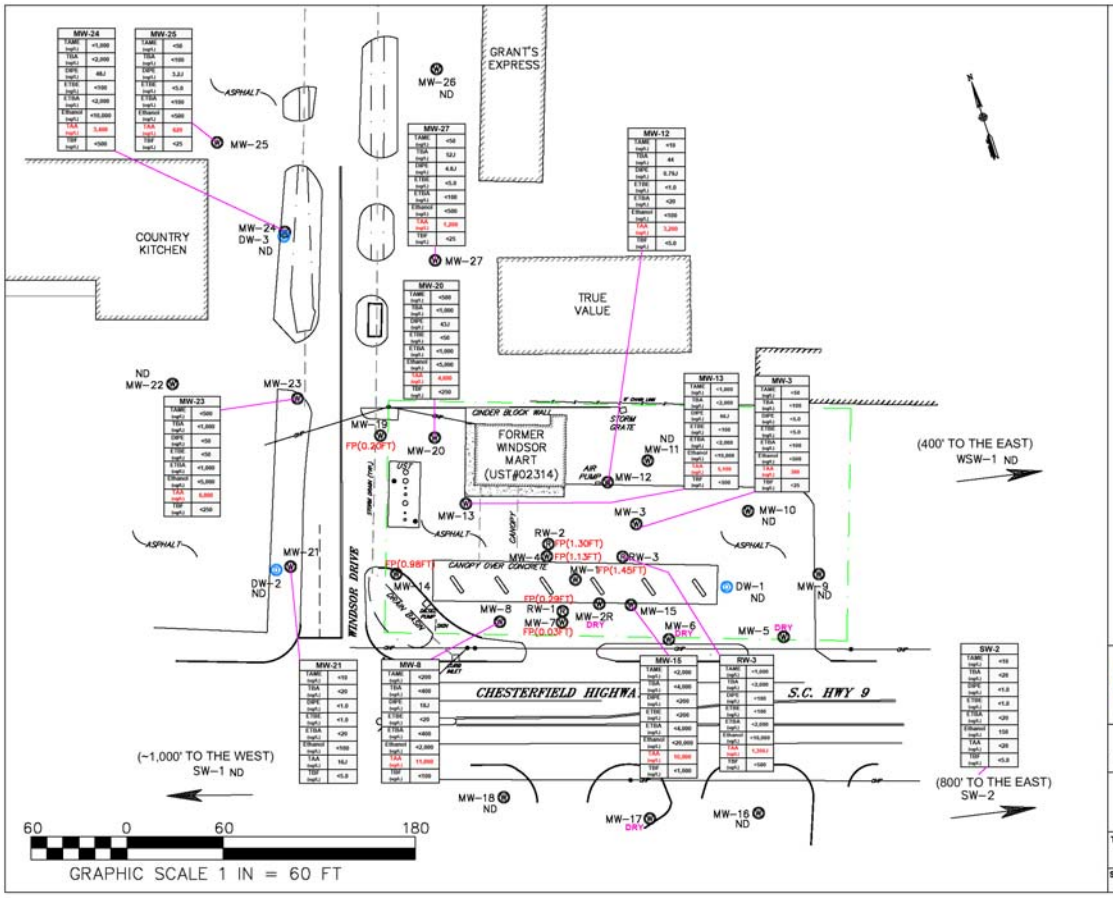
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES CLIENTS FIRST ALWAYS

FIGURE 4A
GROUNDWATER COC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9I	02314
SCALE 1" = 60'	DATE March 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

FP = FREE PRODUCT

TAME = TERT-AMYL METHYL ETHER
TBA = TERT-BUTYL ALCOHOL or T-BUTANOL
DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
ETBA = 3,3-DIMETHYL-1-BUTANOL OR ETHYL-TERT-BUTANOL
TAA = TERT-AMYL ALCOHOL
TBF = TERT-BUTYL FORMATE
J = ESTIMATED VALUE

RED INDICATES CONTAMINANTS EXCEED RBSLs

ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

SAMPLES COLLECTED MARCH 5 & 6, 2018

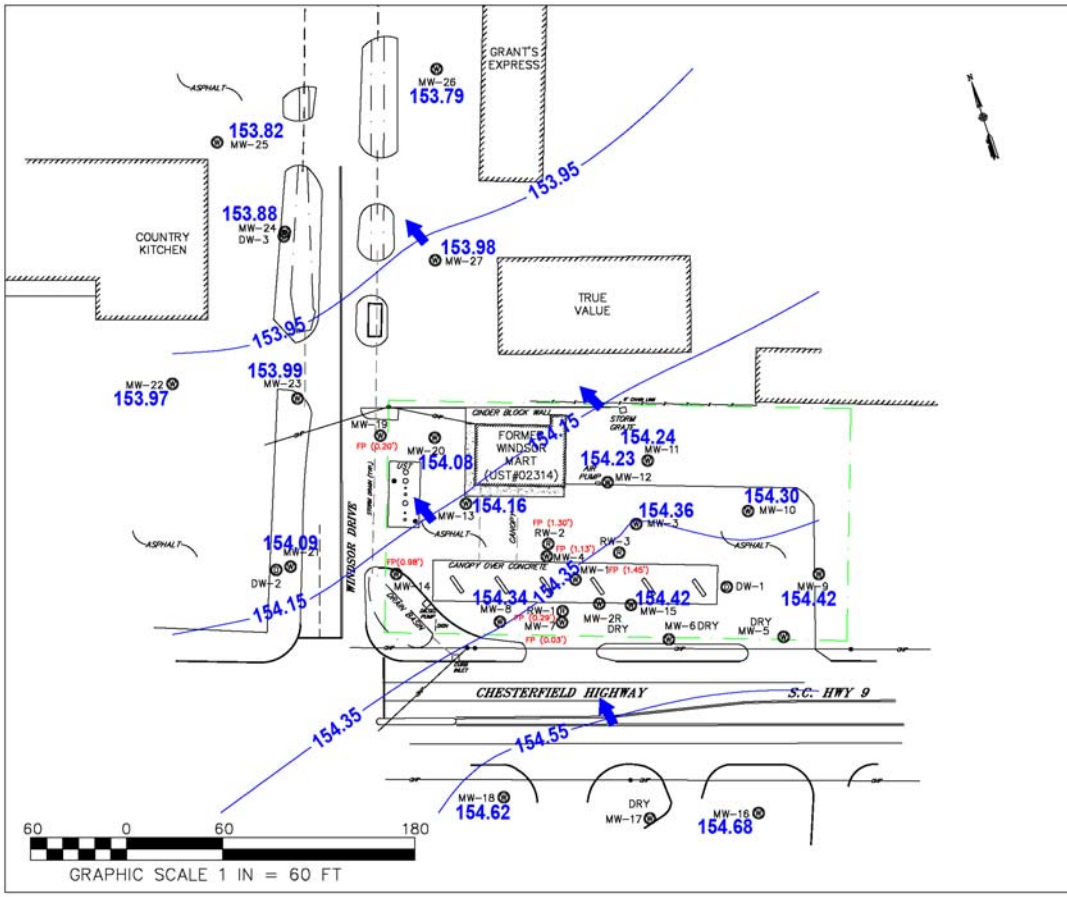
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES CLIENTS FIRST ALWAYS

FIGURE 4B
GROUNDWATER COC (OXY) MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9I	02314
SCALE 1" = 60'	DATE March 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

FP = FREE PRODUCT

154.42 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)

-153.95- GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

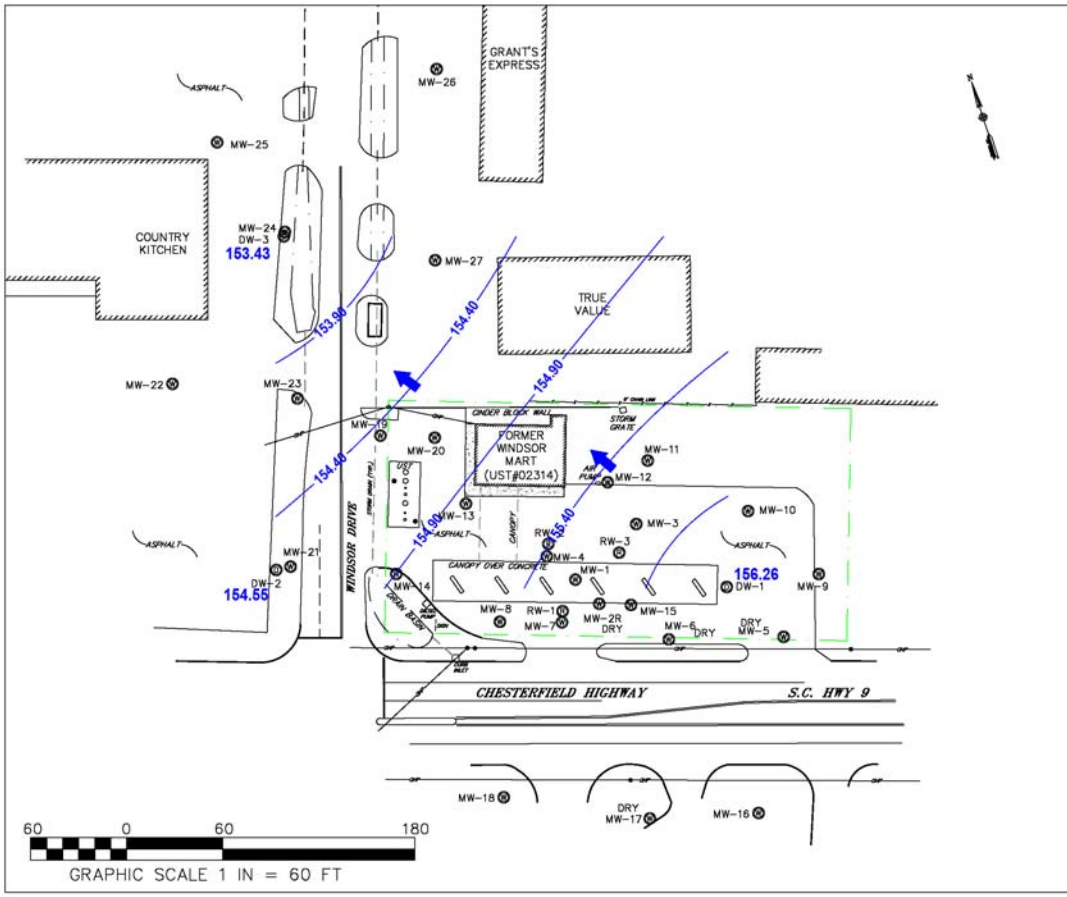
MEASUREMENTS COLLECTED ON MARCH 5 & 6, 2018.

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 5A
SITE POTENTIOMETRIC MAP (SHALLOW)

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9I	02314
SCALE 1" = 60'	DATE March 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- OP — POWER POLE WITH OVERHEAD POWER
- MW-# — MONITORING WELL
- DW-# — DEEP MONITORING WELL
- RW-# — RECOVERY WELL
- BUILDING

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

156.26 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)

-154.90- GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED ON MARCH 5, 2018.

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 5B
SITE POTENTIOMETRIC MAP (DEEP)

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9I	02314
SCALE 1" = 60'	DATE March 2018

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

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	0845		*Last Verification (time)*		

Monitoring Well Information

Well ID	02314 - MW-1	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB	
Well Diameter	2	in
Screened Interval	10 - 20	ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Volume (gal)											
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)					NS -	Free	product	detected			
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

No sample taken free product detected
19.05 DTP
20.53 DTW
1.45 product thickness
Light brown, transparent

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information	
Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 /20 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Monitoring Well Information		
Well ID	02314 - MW-2R	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB	
Well Diameter	2	in
Screened Interval	10.3 - 20.3	ft
Total Well Depth (nearest 0.1')	20.8	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.8

Quality Assurance					
Meter	Horiba U-52-2	or	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0815		Last Verification (time)		

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)			NS - DRY @ 20.8 ft							
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information	
-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

No sample taken
well dry at depth of 20.8 ft

Groundwater Sampling Log

TERRY Environmental Services
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P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JA
General Weather	Overcast
Ambient Air Temperature	45°

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0815		Last Verification (time)	

Monitoring Well Information

Well ID	02314 - MW-3
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	19.5	ft
Depth to Groundwater (nearest 0.01')	17.07	ft
Length of Water Column	2.43	ft
1 Casing Volume (0.163)	0.40	ft
3 Casing Volumes (0.489)	1.19	gals
Total Volume Purged	1.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

19.5

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	INT	0.5	1.0	1.5							
Time (military)	0932	0937	0942	0947							
pH (su)	6.09	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	3.47	3.45	3.45							

Well Condition Information

-overall condition acceptable? Missing bolts
-well cap acceptable?
-manhole and cover acceptable? Vault full of sediment + water
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Moderate petro odor

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	0815		*Last Verification (time)*		

Monitoring Well Information

Well ID	02314 - MW-4		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	*Low* ☐ *Medium* ☐ *High* ☐		

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)			NS	- Free	product					
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

18.52 PTP
19.95 DTW
Free product detected. No sample
1.13 product thickness
light brown, transparent

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information	
Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	50°

Quality Assurance				
Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	1300		Last Verification (time)	1700

Monitoring Well Information			
Well ID	02314 - MW-5		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	9.9 - 19.9	ft	
Total Well Depth (nearest 0.1')	19.9	ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)				NS - well dry @ 19.9ft						
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information	
-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

well dry at 19.9 ft
no sample taken

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0815		Last Verification (time)	

Monitoring Well Information

Well ID	02314 - MW-6
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.1 - 20.1	ft
Total Well Depth (nearest 0.1')	20.1	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.1

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	INT										
Time (military)											
pH (su)											
Spec Conductivity (mS/cm)				NS - PRM @ 20.1 ft							
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

No sample taken
well dry at 20.1 ft

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information	
Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Monitoring Well Information			
Well ID	02314 - MW-7		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.3-20.3	ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Quality Assurance					
Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0815		Last Verification (time)		

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)			NS -	Free	Product					
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information	
-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

NO sample taken, free product detected
19.83 DTP
19.86 DTW
.03 product thickness
brown color

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0815		Last Verification (time)	

Monitoring Well Information

Well ID	02314 - MW-3		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.3 - 20.3	ft	
Total Well Depth (nearest 0.1')	20.4	ft	
Depth to Groundwater (nearest 0.01')	19.45	ft	
Length of Water Column	0.95	ft	
1 Casing Volume (0.163)	0.15	ft	
3 Casing Volumes (0.489)	0.46	gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			20.4
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)	INT									
Time (military)	1123									
pH (su)										
Spec Conductivity (mS/cm)				Insufficient volume for parameters						
Water Temperature (°C)				sample taken						
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

sample taken but insufficient volume for parameters

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 /5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55°

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	1300		Last Verification (time)	

Monitoring Well Information

Well ID	02314 - MW-9
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	9.9-19.9	ft
Total Well Depth (nearest 0.1')	19.9	ft
Depth to Groundwater (nearest 0.01')	18.30	ft
Length of Water Column	1.60	ft
1 Casing Volume (0.163)	0.26	ft
3 Casing Volumes (0.489)	0.78	gals
Total Volume Purged	1.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

19.9

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	INT	0.5	1.0	1.5
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	3.94	3.95

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3/5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55

Monitoring Well Information

Well ID	02314 - MW-10
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.4	ft
Depth to Groundwater (nearest 0.01')	17.79	ft
Length of Water Column	2.61	ft
1 Casing Volume (0.163)	0.43	ft
3 Casing Volumes (0.489)	1.28	gals
Total Volume Purged	1.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.4

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1300	Last Verification (time)		

Volume (gal)	INT	0.5	1.0	1.5						
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						

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55°

Monitoring Well Information

Well ID	02314 - MW-11
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.1-20.1	ft
Total Well Depth (nearest 0.1')	20.1	ft
Depth to Groundwater (nearest 0.01')	17.83	ft
Length of Water Column	2.27	ft
1 Casing Volume (0.163)	.38	ft
3 Casing Volumes (0.489)	1.11	gals
Total Volume Purged	1.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.1

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1300	Last Verification (time)		

Volume (gal)	INT	0.5	1.0	1.5						
Time (military)	1600	1603	1604	1609						
pH (su)	4.45	5.04	5.03	5.03						
Spec Conductivity (mS/cm)	0.080	0.084	0.085	0.085						
Water Temperature (°C)	20.1	20.9	20.9	20.9						
Turbidity (NTU)	212	204	201	201						
Dissolved Oxygen (mg/L)	4.86	3.59	3.59	3.59						

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55

Monitoring Well Information

Well ID	02314 - MW-12
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3 - 20.3	ft
Total Well Depth (nearest 0.1')	20.4	ft
Depth to Groundwater (nearest 0.01')	18.31	ft
Length of Water Column	2.09	ft
1 Casing Volume (0.163)	0.34	ft
3 Casing Volumes (0.489)	1.02	gals
Total Volume Purged	1.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.4

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1300		Last Verification (time)		

Volume (gal)	INT	0.5	1.0	1.5
Time (military)	1611	1614	1617	1620
pH (su)	5.03	5.30	5.31	5.32
Spec Conductivity (mS/cm)	0.113	0.110	0.109	0.108
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

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3/6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0815		Last Verification (time)	

Monitoring Well Information

Well ID	02314 - MW-13	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB	
Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	18.48	ft
Length of Water Column	1.82	ft
1 Casing Volume (0.163)	0.30	ft
3 Casing Volumes (0.489)	0.89	gals
Total Volume Purged	1.5	gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Volume (gal)	INT	0.5	1.0	1.5							
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)	2.07	1.73	1.74	1.74							

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55°

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1300		Last Verification (time)	1700	

Monitoring Well Information

Well ID	02314 - MW-14		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')	20.39	ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)			NS-	Free	product					
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Diesel dispenser ~ 25 ft from well
19.41 DTP
20.39 DTW
0.98 Free product thickness
No sample taken
Dark brown, transparent product on water column

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	AM JK
General Weather	Overcast
Ambient Air Temperature	45°

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	0815		*Last Verification (time)*		

Monitoring Well Information

Well ID	02314 - MW-15		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.3 - 20.3	ft	
Total Well Depth (nearest 0.1')	20.4	ft	
Depth to Groundwater (nearest 0.01')	19.43	ft	
Length of Water Column	0.97	ft	
1 Casing Volume (0.163)	0.16	ft	
3 Casing Volumes (0.489)	0.47	gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			20.4
Well Yield Low ☐ Medium ☐ High ☐			

Volume (gal)	INT										
Time (military)	1105										
pH (su)	/										
Spec Conductivity (mS/cm)	/			Insufficient volume for parameters							
Water Temperature (°C)	/			samples taken							
Turbidity (NTU)	/										
Dissolved Oxygen (mg/L)	/										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

DO samples taken
not enough water for parameters

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	50°

Monitoring Well Information

Well ID	02314 - MW-16
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	16-26	ft	
Total Well Depth (nearest 0.1')	26.0	ft	
Depth to Groundwater (nearest 0.01')	22.29	ft	
Length of Water Column	3.71	ft	
1 Casing Volume (0.163)	0.60	ft	
3 Casing Volumes (0.489)	1.81	gals	
Total Volume Purged	2.25	gals	
Purge Technique Utilized (bailer, pump)			26.0
Well Yield	Low ☐	Medium ☐	High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1300		Last Verification (time)	1700	

Volume (gal)	INT	0.75	1.5	2.25						
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						

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	50'

Monitoring Well Information

Well ID	02314 - MW-17
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.4 - 20.4	ft
Total Well Depth (nearest 0.1')	20.4	ft
Depth to Groundwater (nearest 0.01')	—	ft
Length of Water Column	—	ft
1 Casing Volume (0.163)	—	ft
3 Casing Volumes (0.489)	—	gals
Total Volume Purged	—	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.4

Purge Technique Utilized (bailer, pump)

Well Yield *Low* ☐ *Medium* ☐ *High* ☐

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	1300		*Last Verification (time)*	1700	

Volume (gal)	INT									
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)				NO	sample		DRY	@	20.4	
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

NS- DRY @ 20.4

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55

Monitoring Well Information

Well ID	02314 - MW-18
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	14.6-24.6	ft	
Total Well Depth (nearest 0.1')	24.6	ft	
Depth to Groundwater (nearest 0.01')	20.97	ft	
Length of Water Column	3.63	ft	
1 Casing Volume (0.163)	0.59	ft	
3 Casing Volumes (0.489)	1.78	gals	
Total Volume Purged	2.25	gals	
Purge Technique Utilized (bailer, pump)			24.6
Well Yield	Low ☐	Medium ☐	High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1300		Last Verification (time)	1700	

Volume (gal)	INT	0.75	1.5	2.25							
Time (military)	1720	1723	1726	1729							
pH (su)	4.93	4.55	4.55	4.54							
Spec Conductivity (mS/cm)	0.051	0.057	0.059	0.058							
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	5.24							

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 /16 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Monitoring Well Information

Well ID	02314 - MW-19
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	12.3-22.3	ft	
Total Well Depth (nearest 0.1')	22.2	ft	
Depth to Groundwater (nearest 0.01')	17.22	ft	
Length of Water Column	4.98	ft	
1 Casing Volume (0.163)	0.81	ft	
3 Casing Volumes (0.489)	2.44	gals	
Total Volume Purged	No purge	gals	
Purge Technique Utilized (bailer, pump)			22.2
Well Yield	Low ☐ Medium ☐ High ☐		

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0815		Last Verification (time)		

Volume (gal)	INT									
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)				NS - Free product						
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Interface probe did not detect free product. Free product confirmed w/ bailer
No Sample taken
~ 0.2 ft of FP

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45

Monitoring Well Information

Well ID	02314 - MW-20
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	12.2-22.2	ft
Total Well Depth (nearest 0.1')	22.2	ft
Depth to Groundwater (nearest 0.01')	17.74	ft
Length of Water Column	4.46	ft
1 Casing Volume (0.163)	0.73	ft
3 Casing Volumes (0.489)	2.18	gals
Total Volume Purged	2.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer) pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	0815	Last Verification (time)		

Volume (gal)	INT	0.75	1.5	2.25
Time (military)	0850	0853	0856	0859
pH (su)	5.27	5.44	5.42	5.42
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

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

MW20 Dup taken @ 0901

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3/5/2018
Field Personnel	HM, JK
General Weather	Clear
Ambient Air Temperature	50°

Monitoring Well Information

Well ID	02314 - MW21
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	13.7-23.7	ft
Total Well Depth (nearest 0.1')	23.3	ft
Depth to Groundwater (nearest 0.01')	19.86	ft
Length of Water Column	3.42	ft
1 Casing Volume (0.163)	0.56	ft
3 Casing Volumes (0.489)	1.67	gals
Total Volume Purged	2.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

23.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	1300		Last Verification (time)	

Volume (gal)	INT	0.75	1.5	2.25
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	2.47

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	50°F

Monitoring Well Information

Well ID	02314 - MW-22
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	12-22	ft
Total Well Depth (nearest 0.1')	21.9	ft
Depth to Groundwater (nearest 0.01')	17.98	ft
Length of Water Column	3.92	ft
1 Casing Volume (0.163)	0.64	ft
3 Casing Volumes (0.489)	1.92	gals
Total Volume Purged	2.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

21.9

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1300	Last Verification (time)		

Volume (gal)	INT	0.75	1.5	2.25
Time (military)	1315	1320	1325	1330
pH (su)	4.25	4.29	4.28	4.29
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
Dissolved Oxygen (mg/L)	6.25	2.71	2.76	2.75

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	40°

Monitoring Well Information

Well ID	02314 - MW-23
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	11.2 - 21.2	ft
Total Well Depth (nearest 0.1')	21.0	ft
Depth to Groundwater (nearest 0.01')	17.04	ft
Length of Water Column	3.96	ft
1 Casing Volume (0.163)	0.65	ft
3 Casing Volumes (0.489)	1.94	gals
Total Volume Purged	2.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

21.0

Purge Technique Utilized (bailer, pump)

Well Yield *Low* ☐ *Medium* ☐ *High* ☐

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	0815		*Last Verification (time)*		

Volume (gal)	INT	0.75	1.5	2.25
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	17.5	17.8
Turbidity (NTU)	42.6	32.1	31.0	30.7
Dissolved Oxygen (mg/L)	4.34	2.42	2.40	2.40

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55°

Monitoring Well Information

Well ID	02314 - MW-24
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	11-21	ft	
Total Well Depth (nearest 0.1')	21.0	ft	
Depth to Groundwater (nearest 0.01')	15.90	ft	
Length of Water Column	5.1	ft	
1 Casing Volume (0.163)	0.83	ft	
3 Casing Volumes (0.489)	2.49	gals	
Total Volume Purged	3.0	gals	
Purge Technique Utilized (bailer, pump)			21.0
Well Yield	Low ☐ Medium ☐ High ☐		

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1300		Last Verification (time)		

Volume (gal)	INT	1.0	2.0	3.0						
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						

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55°

Monitoring Well Information

Well ID	02314 - MW-25
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	11-21	ft
Total Well Depth (nearest 0.1')	21.0	ft
Depth to Groundwater (nearest 0.01')	16.26	ft
Length of Water Column	4.74	ft
1 Casing Volume (0.163)	0.77	ft
3 Casing Volumes (0.489)	2.32	gals
Total Volume Purged	3.0	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

21.0

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1300		Last Verification (time)		

Volume (gal)	INT	1.0	2.0	3.0
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

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3/5/2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55°

Monitoring Well Information

Well ID	02314 - MW-2S
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.4-20.4	ft
Total Well Depth (nearest 0.1')	19.9	ft
Depth to Groundwater (nearest 0.01')	15.42	ft
Length of Water Column	4.48	ft
1 Casing Volume (0.163)	0.73	ft
3 Casing Volumes (0.489)	2.19	gals
Total Volume Purged	2.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

19.9

Purge Technique Utilized (bailer/pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	1300		Last Verification (time)	

Volume (gal)	INT	0.75	1.5	2.25
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

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information	
Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM, SK
General Weather	Clear
Ambient Air Temperature	55

Monitoring Well Information			
Well ID	02314 - MW-7		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')	20.0	ft	
Depth to Groundwater (nearest 0.01')	14.97	ft	
Length of Water Column	5.03	ft	
1 Casing Volume (0.163)	0.82	ft	
3 Casing Volumes (0.489)	2.46	gals	
Total Volume Purged	3	gals	
Purge Technique Utilized (bailer, pump)			20.0
Well Yield	Low ☐ Medium ☐ High ☐		

Quality Assurance				
Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	1300		Last Verification (time)	

Volume (gal)	INT	1.0	2.0	3.0
Time (military)	1530	1533	1536	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	40	407	407
Dissolved Oxygen (mg/L)	3.41	2.65	2.63	2.63

Well Condition Information	
-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	50°

Monitoring Well Information

Well ID	02314 - DW-1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	49.6-54.6	ft
Total Well Depth (nearest 0.1')	54.4	ft
Depth to Groundwater (nearest 0.01')	17.33	ft
Length of Water Column	37.07	ft
1 Casing Volume (0.163)	6.04	ft
3 Casing Volumes (0.489)	18.13	gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

54.4

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1300		Last Verification (time)	1700	

Volume (gal)	INT	3.25	6.5							
Time (military)	1800	1805	1810							
pH (su)	5.66	6.03	6.29							
Spec Conductivity (mS/cm)	0.168	0.161	0.159		Purged	dry	sample	taken		
Water Temperature (°C)	15.6	20.2	20.3							
Turbidity (NTU)	116	96.6	91.3							
Dissolved Oxygen (mg/L)	5.05	4.61	3.42	✓						

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable? vault full of clay
-well pad acceptable?
-area safe?
-other comments

Additional Comments

purged dry @ 1 casing volume
sample taken

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3/5/2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	50°

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1300	Last Verification (time)		

Monitoring Well Information

Well ID	02314 - Dw-2		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	44.6-49.6	ft	
Total Well Depth (nearest 0.1')	49.6	ft	
Depth to Groundwater (nearest 0.01')	19.82	ft	
Length of Water Column	29.78	ft	
1 Casing Volume (0.163)	4.85	ft	
3 Casing Volumes (0.489)	14.56	gals	
Total Volume Purged	15.0	gals	
Purge Technique Utilized (bailer, pump)			49.6
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)	INT	2.5	5							
Time (military)	1340	1343	1346							
pH (su)	5.83	6.24	3.95				Purged Dry Sample taken			
Spec Conductivity (mS/cm)	0.126	0.129	0.133							
Water Temperature (°C)	20.1	20.8	20.7							
Turbidity (NTU)	126	181	4.1							
Dissolved Oxygen (mg/L)	4.23	3.30	4.94							

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Purged dry @ 1 casing volume / sample taken

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55°

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	1300		*Last Verification (time)*		

Monitoring Well Information

Well ID	02314 - Dw-3
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	44.6-49.6	ft
Total Well Depth (nearest 0.1')	49.6	ft
Depth to Groundwater (nearest 0.01')	16.50	ft
Length of Water Column	33.10	ft
1 Casing Volume (0.163)	5.40	ft
3 Casing Volumes (0.489)	16.19	gals
Total Volume Purged	16.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

49.6

Purge Technique Utilized (bailer, pump)

Well Yield *Low* ☐ *Medium* ☐ *High* ☐

Volume (gal)	INT	2.75	5.5								
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								

purged dry sample taken

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

purged dry at 1 casing volume, allowed to recharge sample taken

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0815		Last Verification (time)		

Monitoring Well Information

Well ID	02314 - RW-1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	4	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10 - 30	ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)			NS - Free product							
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	YES
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

19.51 DTP
19.80 DTW
Free product detected no sample taken
0.29 free product thickness
dark brown color, transparent

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	Hm JK
General Weather	Overcast
Ambient Air Temperature	45

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU
Last Calibration (time)	0815		*Last Verification (time)*	

Monitoring Well Information

Well ID	02314 - RW-2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	4	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-30	ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield Low ☐ Medium ☐ High ☐			

Volume (gal)										
Time (military)										
pH (su)										
Spec Conductivity (mS/cm)			NS - Free product							
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

18.03 DTP 1.30 FP thickness
19.93 DTW light brown, transparent
No sample taken free product detected

Groundwater Sampling Log

TERRY Environmental Services
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Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 / 6 /2018
Field Personnel	HM JK
General Weather	overcast
Ambient Air Temperature	45°

Monitoring Well Information

Well ID	02314 - RW-3
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	30.0	ft
Depth to Groundwater (nearest 0.01')	18.94	ft
Length of Water Column	11.06	ft
1 Casing Volume (0.163)	7.22	ft
3 Casing Volumes (0.489)	21.67	gals
Total Volume Purged	22.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.0

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0815		Last Verification (time)		

Volume (gal)	INT	3.75	7.5	11.25	15	18.75	22.5		
Time (military)	0952	0955	0958	1001	1004	1007	1010		
pH (su)	5.60	5.91	6.15	6.00	5.75	5.77	5.79		
Spec Conductivity (mS/cm)	0.053	0.057	0.054	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)	29.6	133	487	451	438	437	437		
Dissolved Oxygen (mg/L)	3.66	4.03	5.60	4.11	3.56	3.54	3.54		

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Strong petro odor.

Dup RW-3 Dup taken @ 1012

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.91
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 /5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1300	Last Verification (time)		

Monitoring Well Information

Well ID	02314 - SW-1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	INT									
Time (military)	1545									
pH (su)	5.40									
Spec Conductivity (mS/cm)	0.051									
Water Temperature (°C)	14.9									
Turbidity (NTU)	909									
Dissolved Oxygen (mg/L)	4.48									

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? _____
-well pad acceptable? _____
-area safe? _____
-other comments

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3 /5 /2018
Field Personnel	HM JK
General Weather	Clear
Ambient Air Temperature	55

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU
Last Calibration (time)	1300		*Last Verification (time)*	

Monitoring Well Information

Well ID	02314 - SW-2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter		in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	

Purge Technique Utilized (bailer, pump)

Well Yield *Low* ☐ *Medium* ☐ *High* ☐

Volume (gal)	INT									
Time (military)	1643									
pH (su)	5.92									
Spec Conductivity (mS/cm)	0.109									
Water Temperature (°C)	15.2									
Turbidity (NTU)	161									
Dissolved Oxygen (mg/L)	5.41									

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9I
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	3/6/2018
Field Personnel	HM JK
General Weather	Overcast
Ambient Air Temperature	45°

Monitoring Well Information

Well ID	02314 - WSW1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter		in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1202		Last Verification (time)		

Volume (gal)	INT									
Time (military)	1220									
pH (su)	6.16									
Spec Conductivity (mS/cm)	0.115									
Water Temperature (°C)	15.6									
Turbidity (NTU)	34.3									
Dissolved Oxygen (mg/L)	4.86									

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

WSW1 Dup taken @ 1222

TERRY Environmental Services
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1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 3/5/18 1300 **Inspector:** HM

Solution Manufacturer: ~~Aurical~~ Eurofins Solutions **Lot Number:** 1712d79 **Expiration Date:** 12/30/19

Solution Value	*Instrument Reading*	*Accuracy*
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	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	16.7 °C	16.8 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

TERRY Environmental Services
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1-800-325-[illegible]

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKALNKJ Date/Time: 3/5/18 1700 Inspector: HM

Solution Manufacturer: Aurical (Extra Solution) Lot Number: 1712d79 Expiration Date: 12/30/19

Solution Value	Instrument Reading	Accuracy
pH 4.00	3.96	± .04
Conductivity: 4.49 mS/cm	4.46 mS/cm	± .03 mS/cm
Turbidity: 0.0 NTU	0.7 NTU	± 0.7 NTU

	Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer:	18.0 °C	18.2 °C	± 0.2 °C

QAPP Acceptance Criteria

Field Parameter	Accuracy
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

Inspector's Maintenance Notes

TERRY Environmental Services
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1-800-325-0605

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKS **Date/Time:** 3/5/18 1830 **Inspector:** HM

Solution Manufacturer: Eastern Sol. **Lot Number:** 1712d79 **Expiration Date:** 12/30/19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	3.95	± 0.05
Conductivity: 4.49 mS/cm	4.46 mS/cm	± 0.03 mS/cm
Turbidity: 0.0 NTU	0.8 NTU	± 0.8 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	18.0°C	18.2 °C	± 0.2°C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

TERRY Environmental Services
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Summerville SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 3/6/18 0815 **Inspector:** HM

Solution Manufacturer: ~~Aurical~~ EUTECHEN SOLUTIONS **Lot Number:** 1712d79 **Expiration Date:** 12/30/19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.50 mS/cm	± .01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer	11.6 °C	11.6 °C	± 0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

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(843) 325-[illegible]

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKALMKJ Date/Time: 3/6/18 1200 Inspector: HM

Solution Manufacturer: Eastern Scientific Aurical Lot Number: _____ Expiration Date: _____

Solution Value	Instrument Reading	Accuracy
pH 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.50 mS/cm	± .01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer:	12.6 °C	12.6 °C	± 0 °C

QAPP Acceptance Criteria

Field Parameter	Accuracy
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

Inspector's Maintenance Notes

TERRY Environmental Services
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HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 3/6/18 1232 **Inspector:** HM

Solution Manufacturer: ~~Aurical~~ EUTECHNIC SOLUTIONS **Lot Number:** 1712d79 **Expiration Date:** 12/30/19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.00	± ~~0~~
Conductivity: 4.49 mS/cm	4.50 mS/cm	± .01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± ~~0~~ NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	12.6 °C	12.7 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

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: 2171.9I

Lot Number:**TC06056**

Date Completed:03/09/2018

03/14/2018 3:07 PM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.
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Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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
008	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

Sample	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
008	02314-MW-15	Aqueous	tert-Amyl alcohol (TAA)	8260B	10000		ug/L	16
008	02314-MW-15	Aqueous	Benzene	8260B	5300		ug/L	16
008	02314-MW-15	Aqueous	Ethylbenzene	8260B	2000		ug/L	16
008	02314-MW-15	Aqueous	Naphthalene	8260B	340		ug/L	16
008	02314-MW-15	Aqueous	Toluene	8260B	17000		ug/L	16
008	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	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	Aqueous	tert-Amyl alcohol (TAA)	8260B	6800		ug/L	23
015	02314-MW-23	Aqueous	Benzene	8260B	1800		ug/L	23
015	02314-MW-23	Aqueous	Ethylbenzene	8260B	520		ug/L	23
015	02314-MW-23	Aqueous	Naphthalene	8260B	110		ug/L	23
015	02314-MW-23	Aqueous	Toluene	8260B	5500		ug/L	23
015	02314-MW-23	Aqueous	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	Aqueous	Benzene	8260B	4000		ug/L	24
016	02314-MW-24	Aqueous	Diisopropyl ether (IPE)	8260B	48	J	ug/L	24
016	02314-MW-24	Aqueous	Ethylbenzene	8260B	740		ug/L	24
016	02314-MW-24	Aqueous	Naphthalene	8260B	91	J	ug/L	24
016	02314-MW-24	Aqueous	Toluene	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	Aqueous	Benzene	8260B	220		ug/L	25
017	02314-MW-25	Aqueous	Diisopropyl ether (IPE)	8260B	3.2	J	ug/L	25
017	02314-MW-25	Aqueous	Naphthalene	8260B	9.1		ug/L	25
017	02314-MW-25	Aqueous	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	Aqueous	Benzene	8260B	240		ug/L	27
019	02314-MW-27	Aqueous	Diisopropyl ether (IPE)	8260B	4.8	J	ug/L	27
019	02314-MW-27	Aqueous	Ethylbenzene	8260B	4.4	J	ug/L	27
019	02314-MW-27	Aqueous	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	Toluene	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	Toluene	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	Aqueous	Naphthalene	8260B	64	J	ug/L	31
023	02314-RW-3	Aqueous	Toluene	8260B	7500		ug/L	31
023	02314-RW-3	Aqueous	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	Aqueous	Benzene	8260B	1600		ug/L	32
024	02314-RW-3 Dup	Aqueous	Ethylbenzene	8260B	890		ug/L	32
024	02314-RW-3 Dup	Aqueous	Naphthalene	8260B	64	J	ug/L	32
024	02314-RW-3 Dup	Aqueous	Toluene	8260B	7500		ug/L	32
024	02314-RW-3 Dup	Aqueous	Xylenes (total)	8260B	5000		ug/L	32

Detection Summary (Continued)

Lot Number: TC06056

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
026	02314-SW-2	Aqueous	Ethanol	8260B	150		ug/L	34

(94 detections)

Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-001**

Description: **02314-MW-3** Matrix: **Aqueous**

Date Sampled: **03/06/2018 0947**

Date Received: **03/06/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	5	03/09/2018 0301	BWS		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
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	2.0	ug/L	2
Naphthalene	**91-20-3**	**8260B**	**86**		**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**	**310**		**5.0**	**2.0**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**1300**		**5.0**	**2.0**	**ug/L**	**2**

Surrogate	Q	Run 2 % 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 0451	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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-002**
Description: **02314-MW-8**
Matrix: **Aqueous**
Date Sampled: **03/06/2018 1123**
Date Received: **03/06/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	03/07/2018 1730	KGT		66251

Parameter	CAS Number	Analytical Method	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	8260B	ND		100	40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	8.0	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**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**	**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)	75-65-0	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	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	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 0501	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-003**
Description: **02314-MW-9**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1639**
Date Received: **03/06/2018**

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 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	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		67	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-004**
Description: **02314-MW-10**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1630**
Date Received: **03/06/2018**

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	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	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 0523	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		76	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-005**
Description: **02314-MW-11**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1609**
Date Received: **03/06/2018**

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 1500	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	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	Batch
1	8011	8011	1	03/07/2018 0533	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-006**
Description: **02314-MW-12**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1620**
Date Received: **03/06/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	03/09/2018 0453	BWS		66477

Parameter	CAS Number	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)	**108-20-3**	**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	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 0544	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		64	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-007**

Description: **02314-MW-13** Matrix: **Aqueous**

Date Sampled: **03/06/2018 0911**

Date Received: **03/06/2018**

Volatile Organic Compounds by GC/MS

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**

Surrogate	Q	Run 1 % Recovery	Acceptance 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 Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 0554	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	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance 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

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-008**
Description: **02314-MW-15**
Matrix: **Aqueous**
Date Sampled: **03/06/2018 1105**
Date Received: **03/06/2018**

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	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Description: **02314-MW-16**
Date Sampled: **03/05/2018 1751**
Date Received: **03/06/2018**

Laboratory ID: **TC06056-009**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	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	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	Batch
1	8011	8011	1	03/07/2018 0616	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		74	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-010**
Description: **02314-MW-18**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1729**
Date Received: **03/06/2018**

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

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	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 0626	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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-011**

Description: **02314-MW-20** Matrix: **Aqueous**

Date Sampled: **03/06/2018 0859**

Date Received: **03/06/2018**

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

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-012**

Description: **02314-MW-20 Dup** Matrix: **Aqueous**

Date Sampled: **03/06/2018 0901**

Date Received: **03/06/2018**

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 1909	KGT		66251

Parameter	CAS Number	Analytical Method	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	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 1755	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		66	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-013**
Description: **02314-MW-21**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1359**
Date Received: **03/06/2018**

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 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

Surrogate	Q	Run 1 % Recovery	Acceptance 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		79	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-014**

Description: **02314-MW-22** Matrix: **Aqueous**

Date Sampled: **03/05/2018 1330**

Date Received: **03/06/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	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 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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-015**
Description: **02314-MW-23**
Matrix: **Aqueous**
Date Sampled: **03/06/2018 0830**
Date Received: **03/06/2018**

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 1844	KGT		66251

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**6800**		**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**	**520**		**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**	**110**		**50**	**20**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	400	ug/L	1
Toluene	**108-88-3**	**8260B**	**5500**		**50**	**20**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**3200**		**50**	**20**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	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	03/07/2018 1827	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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-016**

Description: **02314-MW-24** Matrix: **Aqueous**

Date Sampled: **03/05/2018 1439**

Date Received: **03/06/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	03/07/2018 1959	KGT		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	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		100	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	03/07/2018 1838	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		62	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-017**
Description: **02314-MW-25**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1504**
Date Received: **03/06/2018**

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	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		65	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-018**
Description: **02314-MW-26**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1519**
Date Received: **03/06/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		102	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	03/07/2018 1859	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		64	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-019**

Description: **02314-MW-27** Matrix: **Aqueous**

Date Sampled: **03/05/2018 1539**

Date Received: **03/06/2018**

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 1653	JJG		66374

Parameter	CAS Number	Analytical 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 Method	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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-020**

Description: **02314-DW-1** Matrix: **Aqueous**

Date Sampled: **03/05/2018 1810**

Date Received: **03/06/2018**

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	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/07/2018 1920	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		65	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-021**

Description: **02314-DW-2** Matrix: **Aqueous**

Date Sampled: **03/05/2018 1346**

Date Received: **03/06/2018**

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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		101	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 1952	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	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance 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
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-022**

Description: **02314-DW-3** Matrix: **Aqueous**

Date Sampled: **03/05/2018 1425**

Date Received: **03/06/2018**

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 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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry 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	Batch
1	8011	8011	1	03/07/2018 2013	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		61	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Description: **02314-RW-3 Dup**
Date Sampled: **03/06/2018 1012**
Date Received: **03/06/2018**

Laboratory ID: **TC06056-024**
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 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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		101	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	03/07/2018 2024	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	0.0047	ug/L	1

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TC06056-025**
Description: **02314-SW-1**
Matrix: **Aqueous**
Date Sampled: **03/05/2018 1545**
Date Received: **03/06/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance 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 2034	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		75	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-026**

Description: **02314-SW-2** Matrix: **Aqueous**

Date Sampled: **03/05/2018 1643**

Date Received: **03/06/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		101	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 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		78	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry 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

Surrogate	Q	Run 1 % Recovery	Acceptance 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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TC06056-028**

Description: **02314-FB-2** Matrix: **Aqueous**

Date Sampled: **03/06/2018 0800**

Date Received: **03/06/2018**

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 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		103	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 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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Description: **02314-TB-1**
Date Sampled: **03/05/2018**
Date Received: **03/06/2018**

Laboratory ID: **TC06056-029**
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 1504	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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QC Summary

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		98	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66251-002
Batch: 66251
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	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
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66251-002
Batch: 66251
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	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
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: 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	% Rec	Acceptance 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
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

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Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66374-001
Batch: 66374
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Naphthalene	ND		1	1.0	0.40	ug/L	03/08/2018 0956
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	03/08/2018 0956
Toluene	ND		1	1.0	0.40	ug/L	03/08/2018 0956
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/08/2018 0956

Surrogate	Q	% Rec	Acceptance 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
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
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: 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	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	70-130

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
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
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: 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	Acceptance Limit
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	LOQ	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	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ66477-002
Batch: 66477
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	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
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

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

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

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EDB & DBCP by Microextraction - MB

Sample ID: 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

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	92	60-140	03/07/2018 0243

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		83	57-137

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
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

EDB & DBCP by Microextraction - 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
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 03/06/2018 2155

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.18		1	74	60-140	03/07/2018 1931

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		65	57-137

EDB & DBCP by Microextraction - MSD

Sample ID: TC06056-020MD
Batch: 66229
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
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	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		63	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

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Chain of Custody
and
Miscellaneous Documents

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Chain of Custody Record

Number 81666

Client: TERRY ENVIRONMENTAL SERVICES	Report to Contact: KELLY CONE	Telephone No. / E-mail: 843-873-8200	Quote No.
Address: PO Box 25	Sample's Signature:	Analysis (Attach list if more space is needed)	Page 1 of 3
City: SUMMERVILLE State: SC Zip Code: 29484	Printed Name: HUNTER MILES		TC06056
Project Name: MARUTI KUNDAL (Fr. WINDSOR PARK)			
Project No.: 2171.9I	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Collection Code	Matrix: Aqueous	Matrix: Soil/Solid	Matrix: Air	No. of Containers by Preservative Type: Unpres.	HNO3	H2SO4	HCl	NaOH	Soda Ash	BTEX, Naph, MTBE & 1,2 DCA, Oxy, ETH	EDB-504.1	Remarks / Cooler I.D.
02314 MW-3	3/6/18	0947	G	X						6			3	3	
MW-8	3/6/18	1123													
MW-9	3/5/18	1639													
MW-10	3/5/18	1630													
MW-11	3/5/18	1609													
MW-12	3/5/18	1620													
MW-13	3/6/18	0911													
MW-15	3/6/18	1105													
MW-16	3/5/18	1751													
MW-18	3/5/18	1729													

Turn Around Time Required (Prior lab approval required for expedited TAT.): [X] Standard [ ] Rush (Specify)

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	3/6/18	1522	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	3-6-18	1522

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack — Receipt Temp. 2.2 °C

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

Document Number: F-AD-133 Effective Date: 05-01-2014

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SHEALY Chain of Custody Record

Number 81667

Client: TERRY ENVIRONMENTAL SERVICES	Report to Contact: KELLY CONE	Telephone No. / E-mail: 843-873-8200	Quote No.
Address: PO BOX 25	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 2 of 3
City: SUMMERVILLE State: SC Zip Code: 29484	Printed Name: HUNTER MILES		
Project Name: MARKET KUNDAL (Fr. Windsor mart)			
Project No.: 2171.9I	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# Grab Containers	# Composite Containers	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	BTEX, Naph, MTBE 1,2 DCA, DIPE, EDB-8011	Remarks / Cooler I.D.
02314 MW-20	3/6/18	0859	G		X						6			3	3
MW-20 Dup.	3/6/18	0901													
MW-21	3/5/18	1350													
MW-22	3/5/18	1330													
MW-23	3/6/18	0830													
MW-24	3/5/18	1439													
MW-25	3/5/18	1504													
MW-26	3/5/18	1519													
MW-27	3/5/18	1539													
DW-1	3/5/18	1810													

TC06056
KMN2

Turn Around Time Required (Prior lab approval required for expedited TAT.): [X] Standard [ ] Rush (Specify)

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by	3/6/18	1522	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	3-6-18	1522

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle): (Yes) No Ice Pack
Receipt Temp: 22 °C

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

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

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Chain of Custody Record

Number 81668

Client: TRC ENVIRONMENTAL SERVICES	Report to Contact: KELLY LONE	Telephone No. / E-mail: 843-873-8200	Quote No.
Address: PO BOX 25	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 3 of 3
City: SUMMERVILLE State: SC Zip Code: 29484	Printed Name: HUNTER MILES		TC06056
Project Name: MARUTI KUNDAL (Fr. WINDSOR MART)			KMN2
Project No.: 2171.9I	P.O. No.		Remarks / Cooler I.D.

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	Composite / Grab	Matrix: Aqueous	Matrix: Soil	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	BTEX, Naph, MTBE 12 DEA, Oxy-ETH EDB-8011	
02314 DW-2	3/5/18	1346	G	X						6			3	3
DW-3	3/5/18	1425												
RW-3	3/6/18	1010												
RW-3 DUP	3/6/18	1012												
SW-1	3/5/18	1545												
SW-2	3/5/18	1643												
FB-1	3/5/18	1245												
FB-2	3/6/18	0800												
TB-1	—	—	—	—						2			2	—

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	3/6/18	1522	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	3-6-18	1522

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 2.2 °C

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

Document Number: F-AD-133 Effective Date: 03-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MP0018C-12

Page 1 of 1
Effective Date: 02/09/2018

Sample Receipt Checklist (SRC)

Client: Terry Envl. Svcs. Cooler Inspected by/date: LKH / 3-6-18 Lot #: TC06056

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: _____ Chlorine Strip ID: _____

Cooler ID / Original temperature upon receipt / Derived (Corrected) temperature upon receipt:

12.2/22 °C ___/___/___ °C ___/___/___ °C ___/___/___ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☑ Yes	☐ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Time of perservation _____.

Sample(s) 001(2) 003(1) 008(2) 011(1) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #19 is ***no***) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SR barcode labels applied by: LKH Date: 3-6-18

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: 2171.9I

Lot Number:**TC06054**

Date Completed:03/09/2018

03/14/2018 11:26 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.
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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.

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)

Detection Summary

Terry Environmental Services, Inc.

Lot Number: TC06054

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(0 detections)

Client: Terry Environmental Services, Inc.
Description: 02314 WSW 1
Date Sampled: 03/06/2018 1220
Date Received: 03/06/2018

Laboratory ID: TC06054-001
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 1040	JJG		66374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/08/2018 2037	BWS		66466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.20	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.20	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.20	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	70-130
1,2-Dichlorobenzene-d4		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/07/2018 1518	DAL1	03/07/2018 1111	66270

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.0094	0.0038	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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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: TC06054-001
Description: 02314 WSW 1	Matrix: Aqueous
Date Sampled: 03/06/2018 1220	
Date Received: 03/06/2018	

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

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL
H = Out of holding time	W = Reported on wet weight basis		

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Client: Terry Environmental Services, Inc. | Laboratory ID: TC06054-002
Description: 02314 WSW 1 Dup | Matrix: Aqueous
Date Sampled: 03/06/2018 1222
Date Received: 03/06/2018

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 1102	JJG		66374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/08/2018 2102	BWS		66466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.20	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.20	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.20	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	70-130
1,2-Dichlorobenzene-d4		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/07/2018 1530	DAL1	03/07/2018 1111	66270

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.0097	0.0039	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Terry Environmental Services, Inc.
Laboratory ID: TC06054-002
Description: 02314 WSW 1 Dup
Matrix: Aqueous
Date Sampled: 03/06/2018 1222
Date Received: 03/06/2018

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: Terry Environmental Services, Inc. | Laboratory ID: TC06054-003
Description: 02314 FB-DW | Matrix: Aqueous
Date Sampled: 03/06/2018 1205
Date Received: 03/06/2018

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 1124	JJG		66374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/08/2018 1858	BWS		66466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.20	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.20	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.20	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	70-130
1,2-Dichlorobenzene-d4		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/07/2018 1542	DAL1	03/07/2018 1111	66270

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.0098	0.0039	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: Terry Environmental Services, Inc.
Laboratory ID: TC06054-003
Description: 02314 FB-DW
Matrix: Aqueous
Date Sampled: 03/06/2018 1205
Date Received: 03/06/2018

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: Terry 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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/08/2018 1146	JJG		66374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/08/2018 1923	BWS		66466

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.20	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.20	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.20	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.20	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	70-130
1,2-Dichlorobenzene-d4		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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QC Summary

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
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/08/2018 0956
Ethanol	ND		1	100	40	ug/L	03/08/2018 0956
3,3-Dimethyl-1-butanol	ND		1	20	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	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
tert-butyl alcohol (TBA)	ND		1	20	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	Acceptance 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
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

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
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

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

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

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Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ66466-001
Batch: 66466
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	0.50	0.20	ug/L	03/08/2018 1725
1,2-Dichloroethane	ND		1	0.50	0.20	ug/L	03/08/2018 1725
Ethylbenzene	ND		1	0.50	0.20	ug/L	03/08/2018 1725
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	0.20	ug/L	03/08/2018 1725
Naphthalene	ND		1	0.50	0.20	ug/L	03/08/2018 1725
Toluene	ND		1	0.50	0.20	ug/L	03/08/2018 1725
Xylenes (total)	ND		1	0.50	0.20	ug/L	03/08/2018 1725

Surrogate	Q	% Rec	Acceptance 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
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

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

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

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EDB & DBCP by Microextraction - MB

Sample ID: 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
Analytical Method: 504.1
Matrix: Aqueous
Prep Method: 504.1
Prep Date: 03/07/2018 1111

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.24		1	94	70-130	03/07/2018 1354

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		100	57-137

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

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

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Chain of Custody
and
Miscellaneous Documents

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

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Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 81669

Client: TERRA ENVIRONMENTAL SERVICES	Report to Contact: KELLY LONE	Telephone No. / E-mail: 843-873-8200	Quote No.
Address: PO Box 25	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 1 of 1
City: SUMMERVILLE State: SC Zip Code: 29484	Printed Name: HUNTER MILES		TC06054
Project Name: MARUTI KUNDAL (Fr. Windsor mart)			
Project No.: 2171.9I	P.O. No.		Remarks / Cooler I.D.

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab	Comp	Matrix: Aqueous	Matrix: Solid	Matrix: Non-aqueous	No. of Containers by Preservative Type: Unpres.	HNO3	HCl	NaOH	SAPO 70	BTEX, MTBE, Naph, MNBE (8260B)	1,2 DCA (8260B)	1,2 DBrEthane (8260B)	EDB (504.1)
02314 WSW 1	3/6/18	1220	G		X					9			3		3	3
WSW 1 Dup	3/6/18	1222														
FB - DW	3/6/18	1205														
TB - 1	—	—								2			1		1	1

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	3/6/18	1522	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: L Hite	3-6-18	1522

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack
Receipt Temp. 2.1 °C TB

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

Document Number: F-AD-153 Effective Date: 09-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MD0018C-12

Page 1 of 1
Effective Date: 02/09/2018

Sample Receipt Checklist (SRC)

Client: Terry Enviro. Cooler Inspected by/date: CBW / 3.6.18 Lot #: T C06054

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: _____ Chlorine Strip ID: _____

Cooler ID / Original temperature upon receipt / Derived (Corrected) temperature upon receipt:

__/__/__ °C __/__/__ °C 2-1 /2.1/__ °C __/__/__ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? EDB 504.1 in HCl*
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Time of perservation _____.

Sample(s) _____ _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ _____ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SR barcode labels applied by: CBW Date: 3.6.18

CBW 3.6.18

Comments:

* Samples from non-chlorinated 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

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address: Windsor Mart Cheraw, SC | Phone ( ) | P O #: 2171.9 I

3. Agent of Generator and Mailing Address: Terry Environmental Services PO Box 25 Summerville, SC 29484 | Phone (843) 873-5200 | P O #:

4. Transporter Company Name: | Phone ( )

Truck & Trailer License Number:

5. Transporter U.S. EPA ID#:

6. Facility Name and Site Address:	Mailing Address:	
US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water			gal	95

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: Hunter Miles | Signature: [signature] | Date: 3/16/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Langston Jones | Signature: Langston Jones | Date: 3-22-18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: [illegible] | Signature: [signature] | Date 3-22-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

19236

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

Contractor Checklist – Maruti Kundal (Former Windsor Mart)

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		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 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.

dhec
Healthy People. Healthy Communities.

APR 1 2 2018

JACKSON OIL COMPANY INC
755 SOUTH 4TH STREET
HARTSVILLE SC 29550

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.**

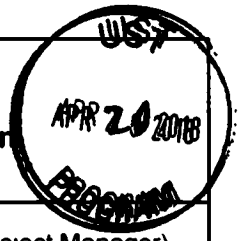
On all correspondence concerning this site, please reference **UST Permit #02314.** If there are any questions concerning this project, please contact me at (803) 898-0655 or by email at hofferqm@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
UST Management Division
Bureau of Land and Waste Management

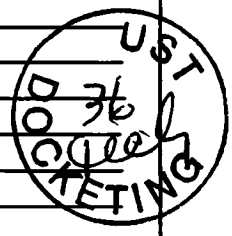
cc: Terry Environmental Services, Inc., PO Box 25, Summerville, SC 29484
Technical File

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



To. Quincy Hoffer (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number. UCC-0223

Facility Name Maruti Kundal (Former Windsor Mart) UST Permit #: 02314
Facility Address 820 Chesterfield Highway, Cheraw, South Carolina 29520
Responsible Party. Jackson Oil Company, Inc Phone. 843-537-7080
RP Address: 755 South 4th Street, Hartsville, SC 29550
Property Owner (if different): n/a
Property Owner Address: n/a
Current Use of Property Gas Station and Convenience Store (Corner Cupboard)



Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☐ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☑ Other Recovery Well Install & Two AFVRs

Analyses (Please check all that apply)

Groundwater/Surface Water.

☐ BTEXNMDCA (8260B) ☐ Lead ☐ BOD ☐ Methane
☐ Oxygenates (8260B) ☐ 8 RCRA Metals ☐ Nitrate ☐ Ethanol
☐ EDB (8011) ☐ TPH ☐ Sulfate ☐ Dissolved Iron
☐ PAH (8270D) ☐ pH ☐ Other _____

Drinking Water Supply Wells:

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

Soil.

☐ BTEXNM ☐ Lead ☐ RCRA Metals ☐ TPH-DRO (3550B/8015B) ☐ Grain Size
☐ PAH ☐ Oil & Grease (9071) ☐ TPH-GRO (5030B/8015B) ☐ TOC

Air:

☐ BTEXN

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

-- Soil -- Water Supply Wells -- Air -- Field Blank
-- Monitoring Wells -- Surface Water -- Duplicate -- Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: -- Estimated Footage: -- feet per point
# of deep points proposed: -- Estimated Footage: -- feet per point
Field Screening Methodology: --

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells. -- Estimated Footage: -- feet per point
# of deep wells. -- Estimated Footage: -- feet per point
# of recovery wells: 2 Estimated Footage. 60' (2 x 30") feet per point
Comments, if warranted. The recovery wells will be 4" in diameter and screened (10'-30')

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 45-60 days # of Copies Provided to Property Owners: RP

Aquifer Characterization
Pump Test. ☐ Slug Test ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal
Soil. 2 Tons Purge Water 75 Gallons
Drilling Fluids 55 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.

Per SCDHEC request, two 4-inch recovery wells will be installed in proximity to the current UST Basin A subsequent survey and two 96- hour AFVR Events will follow The first event is requested on RW-1, RW-2, and RW-3 and the second is requested on the two newly proposed recovery wells (RW-4 & RW-5)

Note Based on historical AFVR data effluent recovery has been in the 40,000 gallon range for a 96-hour event

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
____ Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory:
SCDHEC Certification Number:
Name of Laboratory Director.

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

____ Other variations from ACQAP. Please describe below.

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

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Healthy People Healthy Communities

ASSESSMENT COMPONENT INVOICE
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: 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	1	each	$150.00		$150.00
B1. Tax Map		each	$70.00		$0.00
C1 Tier II or Comp. Plan /QAPP Appendix B		each	$250 00		$0.00
2. A1. **Receptor Survey** *		each	$551.00		$0 00
3 **Survey (500 ft x 500 ft)**					
A1 Comprehensive Survey		each	$1,040.00		$0.00
B Subsurface Geophysical Survey					
1B < 10 meters below grade		each	$1,300.00		$0.00
2B. > 10 meters below grade		each	$2,310.00		$0 00
C1. Geophysical UST or Drum Survey		each	$910.00		$0.00
4 **Mob/Demob**					
A1. Equipment	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)***		foot	$5 00		$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***					
AA Standard		per foot	$15.00		$0.00
C1. Fractured Rock		per foot	$20.20		$0.00
7. A1. **Soil Leachability Model**		each	$60 00		$0 00
8. **Abandonment (per foot)***					
A1. 2" diameter or less		per foot	$3.10		$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50		$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00		$0.00
9 **Well Installation (per foot)***					
A1. Water Table (hand augered)		per foot	$10.60		$0.00
B1. Water Table (drill rig)		per foot	$38.00		$0.00
CC. Telescoping		per foot	$50.00		$0.00
DD. Rock Drilling		per foot	$58.00		$0 00
E1. 2" Rock Coring		per foot	$30.90		$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40		$0.00
HH. Recovery Well (4" diameter)	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 Product ***					
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
I Groundwater (low flow purge)		per well/receptor	$91.00		$0.00

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	$122 00		$0 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		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-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)		per sample	$124.05		$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75		$0.00
N EDB (504 1)		per sample	$79.50		$0 00
O. RCRA METALS (200.8)		per sample	$100 00		$0.00
11 **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1 PAH's		per sample	$64.04		$0.00
S1 8 RCRA Metals		per sample	$56.40		$0 00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1 Total Organic Carbon		per sample	$30 60		$0.00
11. **Analyses-Air**					
Y1 BTEX + Naphthalene		per sample	$216 00		$0.00
11. **Analyses-Free Phase Product**					
Z1 Hydrocarbon Fuel Identification		per sample	$357.00		$0 00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1 Fractured Rock		per test	$100 00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38 00		$0.00
14. **Fate/Transport Modeling**					
A1 Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15 **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16 A1 **Subsequent Survey***	1	each	$260.00		$260.00
17 **Disposal (gallons or tons)***					
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)**					
		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*	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 installation & service:**					
A1 New GAC System Installation*		each	$1,900.00		$0.00
BB Refurbished GAC Sys Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1 GAC System housing*		each	$250 00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1 Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1 Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88 00		$0.00
D1. Repair well vault*		each	$118 00		$0 00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15 00		$0 00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1 Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1 Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1 Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$67,619.35		$8,114.32
TOTAL					$75,733.67

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

DHEC

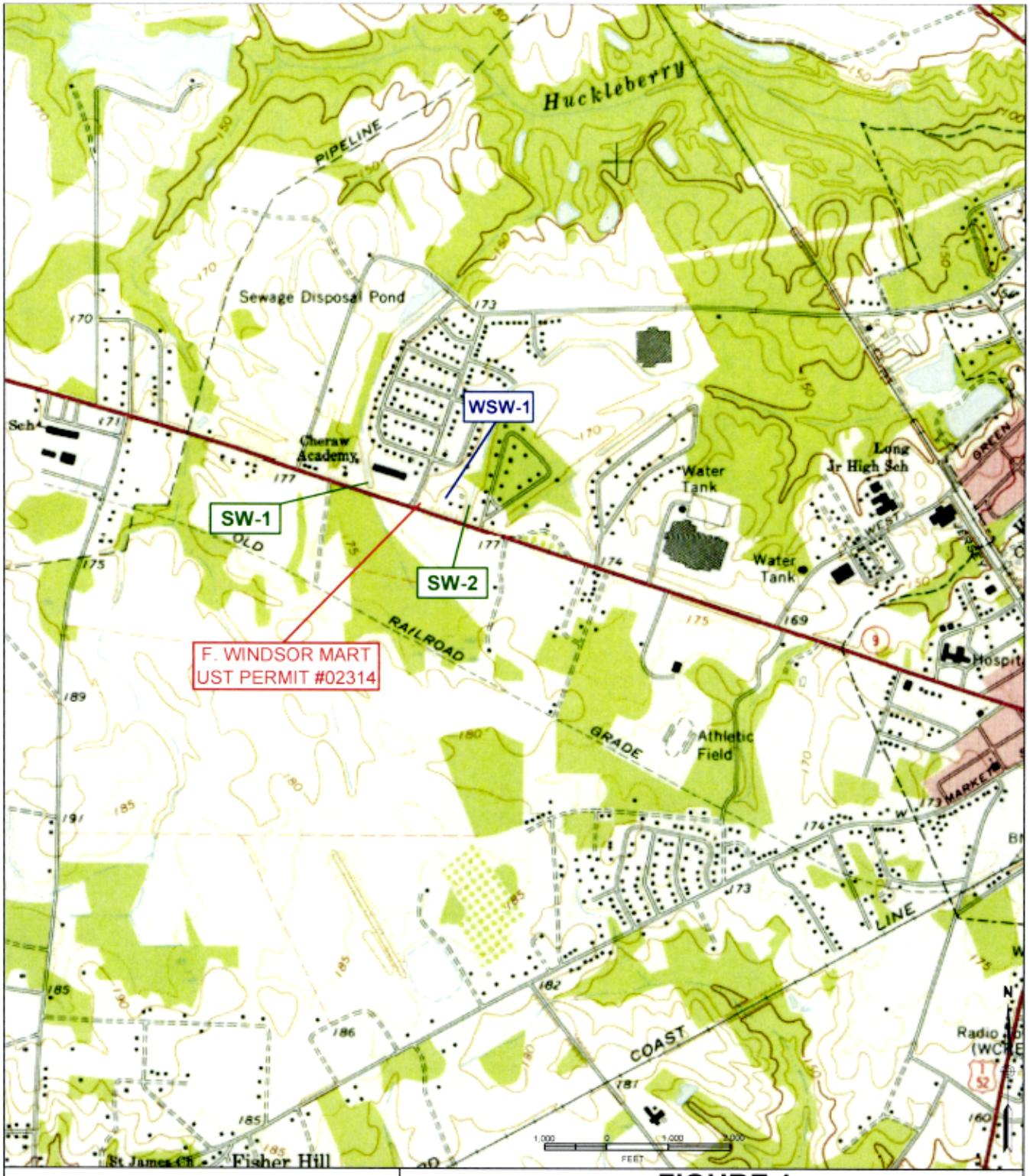


FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

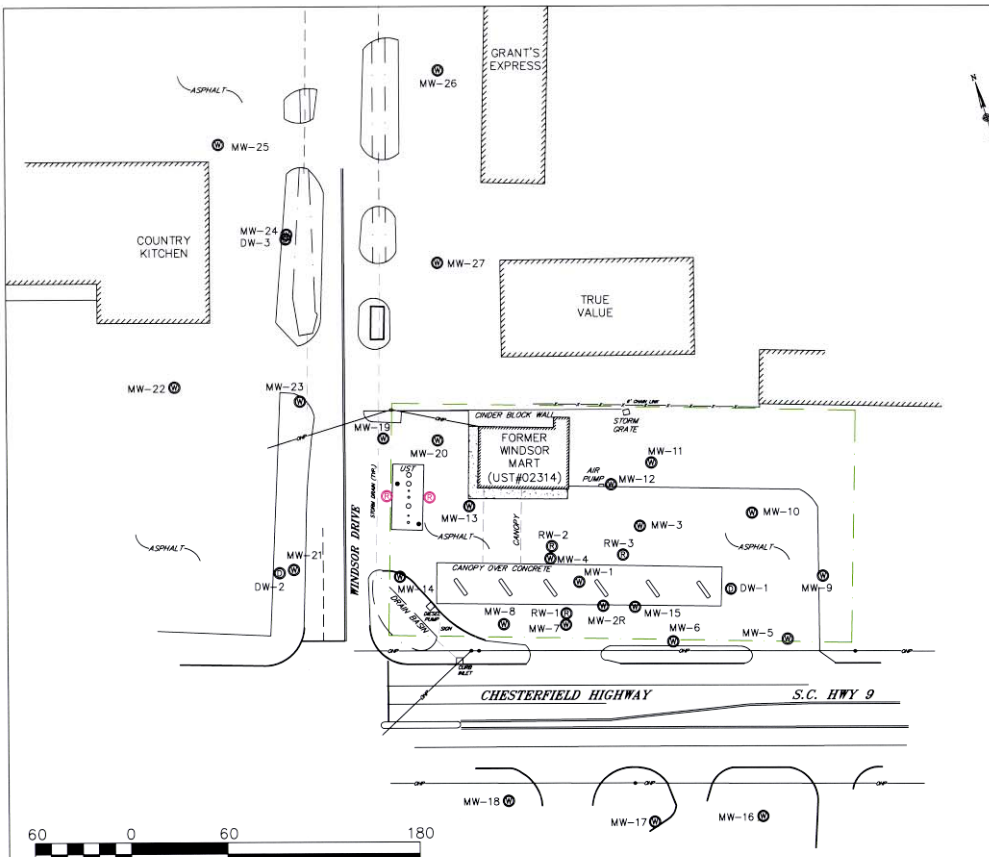
providing our clients with the best services available, actually understanding our clients objectives, and making their objectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9J	Figure 1 Topo Map	

SCALE: As Shown

DATE: April 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# (W) MONITORING WELL
- DW-# (W) DEEP MONITORING WELL
- RW-# (R) RECOVERY WELL
- BUILDING

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

RW-# (R) PROPOSED RECOVERY WELL

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9J	02314
SCALE 1" = 60'	DATE April 2018

dhec
Healthy People. Healthy Communities.

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 hofferqm@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)

dhec
Healthy People. Healthy Communities.

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.

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

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Quincy Hoffer the project manager (tel: (803) 898-0655 or e-mail: hofferqm@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.

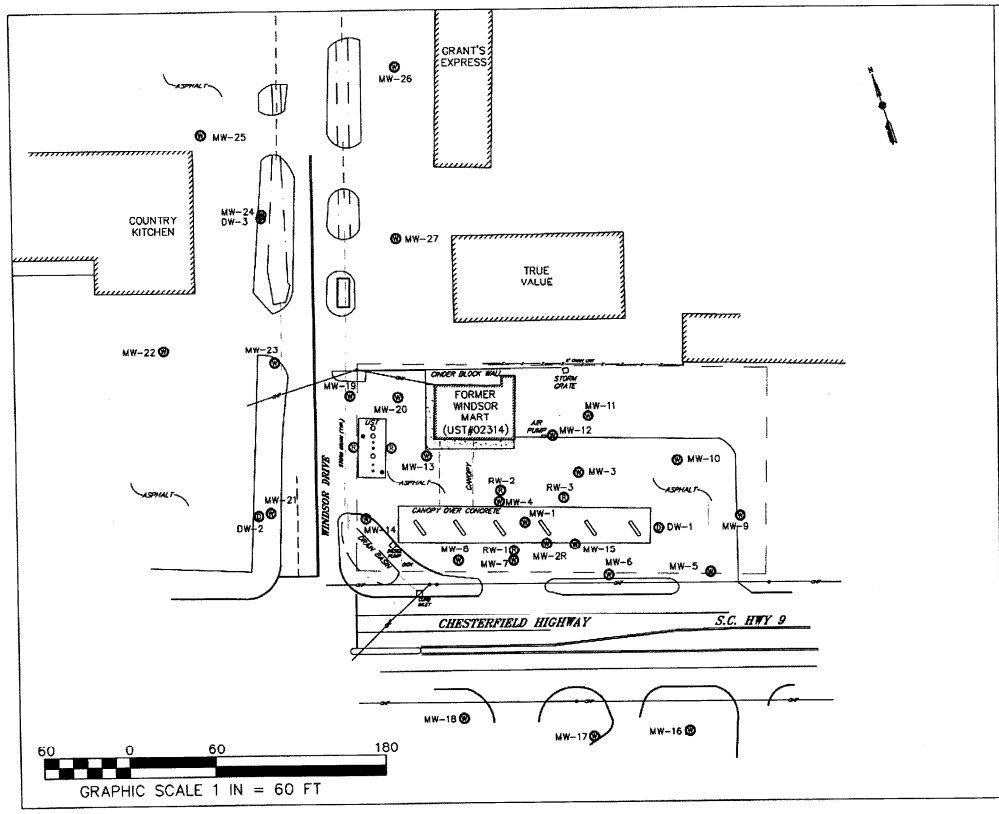
Date of Issuance: May 08, 2018 **Approval #: UMW-27038**

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 57075

Facility: 02314 MARUTI KUNDAL DBA COUNTRY CUPBOARD 7
HOFFERQM
PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN				
	A1 SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB				
	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	80,000.0000	$0.440	35,200.00
	G AFVR EQUIPMENT MOB	2.0000	$391.500	783.00
			Total Amount	76,207.43



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TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9J	02314
SCALE 1" = 60'	DATE April 2018

Healthy People. Healthy Communities.

CERTIFIED MAIL
9214 8969 0099 9790 1411 9626 94

CHARLES JACKSON
JACKSON OIL CO INC
755 S 4TH ST
HARTSVILLE SC 29550

JUN 07 2018

UST 38 DOCKETING

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

Read S. Miner, P.G., Hydrogeologist
Corrective Action & Field Support
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.

UST Permit #	02314	**Release Report Date:**	12/6/91
Facility Name:		Maruti Kundal DBA Country Cupboard 7	
Facility Address:		820 Chesterfield Hwy., Cheraw	
Facility Phone Number:			
Is facility within city limits? (circle yes/no)		**Yes**	**No**
Name of nearest intersecting street/road/highway:			
Does public water/sewer utility service this facility?		**Yes**	**No**

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name:	**Phone Number:**

Were USTs previously removed from the ground at this facility?	**Yes**	**No**

*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

Name:	**Phone Number:**

Is the facility currently leased to someone?	**Yes**	**No**

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name:	**Phone Number:**

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of UST owner/former owner or authorized representative (Print):		
Signature of UST owner/former owner or authorized representative:		**Date**
Affiliation (if applicable)		
Signature of Witness		**Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:**
Email Address:		

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 Opportunitiesand 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 Cupboard 7	
Facility Address:		820 Chesterfield Hwy., Cheraw	
Facility Phone Number:			

Name of UST owner/former owner or authorized representative (Print):		
Signature of UST owner/former owner or authorized representative:		**Date**
Affiliation (if applicable)		
Signature of Witness		**Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:**
Email Address:		

UST Recd JUN 18 2018 DIVISION

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 Opportunitiesand 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 Cupboard 7	
Facility Address:		820 Chesterfield Hwy., Cheraw	
Facility Phone Number:			

Name of UST owner/former owner or authorized representative (Print):	Charles Jackson Jr	
Signature of UST owner/former owner or authorized representative:		6-14-2018 **Date**
Affiliation (if applicable)		
Signature of Witness		6-14-18 **Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:**
Email Address:	CJackson@jacksonoil.com	

UST Tech 39 DOCKETING

Read

dhec

UST
JUN 2 1 2018
PROGRAM

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:** RNGR	12/6/91
Facility Name:		Maruti Kundal DBA ~~Country~~ Cupboard 7	
Facility Address:		820 Chesterfield Hwy., Cheraw	
Facility Phone Number:			

Name of UST owner/former owner or authorized representative (Print):	Charles Jackson Jr	
Signature of UST owner/former owner or authorized representative:		6-14-2018 **Date**
Affiliation (if applicable)		
Signature of Witness		6-14-18 **Date**

Contact Info

Phone Numbers:	**Home:**	**Cell:**
Email Address:	CJackson@jacksonoil.com	

UST
40
DOCKETING

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 7-10-18

Permit Number 07314

Project Manager Reed Miner

Name of Contractor TES

UST Certification Number _____

Docket Number 41 Tech

Scanned _____

RH: Install / AFVR

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:

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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

JASON A. TERRY, PG
President

JUNE 2018

JASON A. TERRY REGISTERED NO. 2171 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

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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
Certification:	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:	June 18-22, 2018	**Average Depth to Groundwater:**	17-20 ft.
Site Name:	Maruti Kundal (Former Windsor Mart)	**Describe Soil in Saturated Zone:**	Silty Sand
SCDHEC Site ID #:	02314	**Vacuum Contractor:**	TERRY Environmental Services,Inc.
Well ID #:	MW-1, -4, RW-1, & -2	**Blower Specification of the Vacuum Truck (CFM @ Hg):**	282 CFM @ 25" Hg

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)												EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{inf}	PPM_{eff}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{inf}	C_c	PMR_c	PMR_g	PMR_t
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dim³)	(lb/dscf)	(lb/hr)	(lb/hr)	(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	6781.91	4.234E-04	0.73	0.85	0.14
6/18/2018	18:00	23.0	689	3	110.9	38.7	4,087	201.7	95	180	28.52	4479.90	17919.59	4	8941.18	5.582E-04	0.96	1.11	0.18
6/18/2018	18:30	23.0	671	3	107.7	39.2	4,960	254	95	210	27.93	5436.82	21747.29	4	10851.06	6.774E-04	1.14	1.31	0.21
6/18/2018	19:00	20.0	1,209	3	124.8	34.8	4,815	398	92	240	48.86	5277.88	21111.53	4	10533.84	6.576E-04	1.93	2.23	0.36
6/18/2018	19:30	18.5	1,437	3	125.0	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	0.28
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	4,975	493	90	1080	25.83	5453.26	21813.06	4	10883.87	6.795E-04	1.05	1.22	0.19
6/19/2018	10:00	24.0	685	3	110.3	35.7	4,326	467	89	1140	28.39	4741.87	18967.49	4	9464.05	5.908E-04	1.01	1.16	0.19
6/19/2018	11:00	23.5	797	3	116.2	27.6	4,911	499	90	1200	32.69	5383.11	21532.45	4	10743.86	6.707E-04	1.32	1.52	0.24
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	2,471	3	137.8	25.9	1,823	271	85	2700	97.69	1998.25	7993.01	4	3988.20	2.490E-04	1.46	1.69	0.27
6/20/2018	14:00	19.0	3,014	3	144.1	24.2	1,248	204	84	2820	117.91	1367.97	5471.90	4	2730.27	1.705E-04	1.21	1.40	0.22
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	2.62	3.26	0.52
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	0.54
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	67.52	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	62.10	4343.98	17375.91	4	8669.91	5.413E-04	2.02	2.33	0.37
6/21/2018	22:00	20.0	1,477	3	125.5	38.1	3,659	301	92	4740	59.62	4010.75	16043.01	4	8004.84	4.997E-04	1.79	2.07	0.33
6/22/2018	0:00	20.0	1,482	3	129.0	38.0	3,691	311	92	4860	59.46	4045.83	16183.32	4	8074.85	5.041E-04	1.80	2.08	0.33
6/22/2018	8:00	18.0	1,399	3	127.4	38.1	3,874	424	89	5340	56.29	4246.42	16985.68	4	8475.20	5.291E-04	1.79	2.07	0.33
6/22/2018	10:00	19.0	1,411	3	126.3	37.6	3,776	418	89	5460	56.88	4139.00	16556.00	4	8260.80	5.157E-04	1.76	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
β_{wet} =	0.088	β_{wdse}:	0.06																

Total Pounds of Carbon Recovered as Emissions: 158.60
Total Pounds of Gasoline Vapor Recovered as Emissions: 183.50
Total Gallons 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
SCDHEC UST PERMIT #02314

Date:	June 25-29, 2018	**Average Depth to Groundwater:**	17-18 ft.
Site Name:	Maruti Kundal (Former Windsor Mart)	**Describe Soil in Saturated Zone:**	Silty Sand
SCDHEC Site ID #:	02314	**Vacuum Contractor:**	TERRY Environmental Services, Inc.
Well ID #:	RW-4 & RW-5	**Blower Specification of the Vacuum Truck (CFM @ Hg):**	282 CFM @ 25" Hg

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) CALCULATIONS (Qstd)												EMISSION CALCULATION							
		Vacuum	Velocity	Pipe Id	Temp.	Rel.Humid	PPM_{inf}	PPM_{vapor}	Reduction	Elapsed time	Flow	PPM_d	PPM_c	K	C_{inf}	C_c	PMR_c	PMR_v	PMR_t
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(%)	(min)	(DSCFM)				(mg/dsm³)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
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	0.08
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	0.09
6/25/2018	14:30	26.0	920	3	148.0	81.0	1,710	19.0	99	60	35.76	1874.39	7497.55	4	3740.99	2.335E-04	0.50	0.58	0.09
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	0.10
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	0.10
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	0.09
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	0.05
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	0.06
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	0.05
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	0.04
6/25/2018	18:30	25.0	980	3	148.0	87.0	628	9.5	99	300	38.09	688.37	2753.49	4	1373.88	8.577E-05	0.20	0.23	0.04
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	0.09
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	0.12
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	0.14
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	0.10
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	0.06
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	0.07
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	0.06
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	0.06
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	0.07
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	0.07
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	0.10
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	0.15
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	0.15
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	0.18
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	0.27
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	0.14
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	0.28
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	0.17
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	0.16
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	0.21
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	0.25
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	0.28
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	0.24
6/27/2018	12:00	25.0	799	3	103.6	52.3	4,011	544.3	86	2790	33.50	4396.59	17586.37	4	8774.92	5.478E-04	1.10	1.27	0.20
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	0.21
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	0.25
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	0.22
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	0.26
6/27/2018	22:00	23.0	908	3	86.9	43.1	4,074	678.6	83	3390	39.24	4465.65	17862.59	4	8912.74	5.564E-04	1.31	1.52	0.24
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	0.25
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	0.25
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	0.22
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	0.19
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	0.22
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	0.22
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	0.22
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	0.22
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	0.23
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	0.22
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	0.22
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	0.22
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	0.23
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	0.22
Average		24.0	917.3	3.0	111.0	51.3	2861	300	92		37.97	3136.04	12544.15	4	6259.05	3.908E-04	0.89	1.03	0.16
B_{ws} =	0.088	B_{wsw}:	0.06																

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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 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/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ 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/K_3)

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
Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger Depth (ft)*	Elapsed Time	Stinger 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	22.0	3.5	19.0	3.5	22.0	3.5	22.0
4	21.5	4	19.0	4	23.0	4	23.0
4.5	20.5	4.5	19.0	4.5	23.5	4.5	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	17.0	69	17.0	69	17.0
71	17.0	71	17.0	71	17.0	71	17.0
73	17.0	73	17.0	73	17.0	73	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
79	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	0	18.0
0.5	19.0	0.5	19.0
1	20.0	1	20.0
1.5	21.0	1.5	21.0
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
4.5	25.0	4.5	25.0
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	20.0	10	20.0
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
42.5	20.0	42.5	20.0
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
54.5	20.0	54.5	20.0
56.5	20.0	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
72.5	20.0	72.5	20.0
74.5	20.0	74.5	20.0
76.5	20.0	76.5	20.0
78.5	20.0	78.5	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
96	20.0	96	20.0

*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 #	MW-2R		Well #	MW-12		Well #	MW-13	
Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to 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	0.0	18.88	4	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	17.70	49	0.0	17.82
51	0.0	18.85	51	0.0	17.71	51	0.0	17.84
53	0.0	19.12	53	0.0	17.85	53	0.0	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 #	MW-13		Well #	MW-19**		Well #	MW-20	
Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to Water (ft.)*	Elapsed Time	Vacuum (in H2O)	Depth to 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

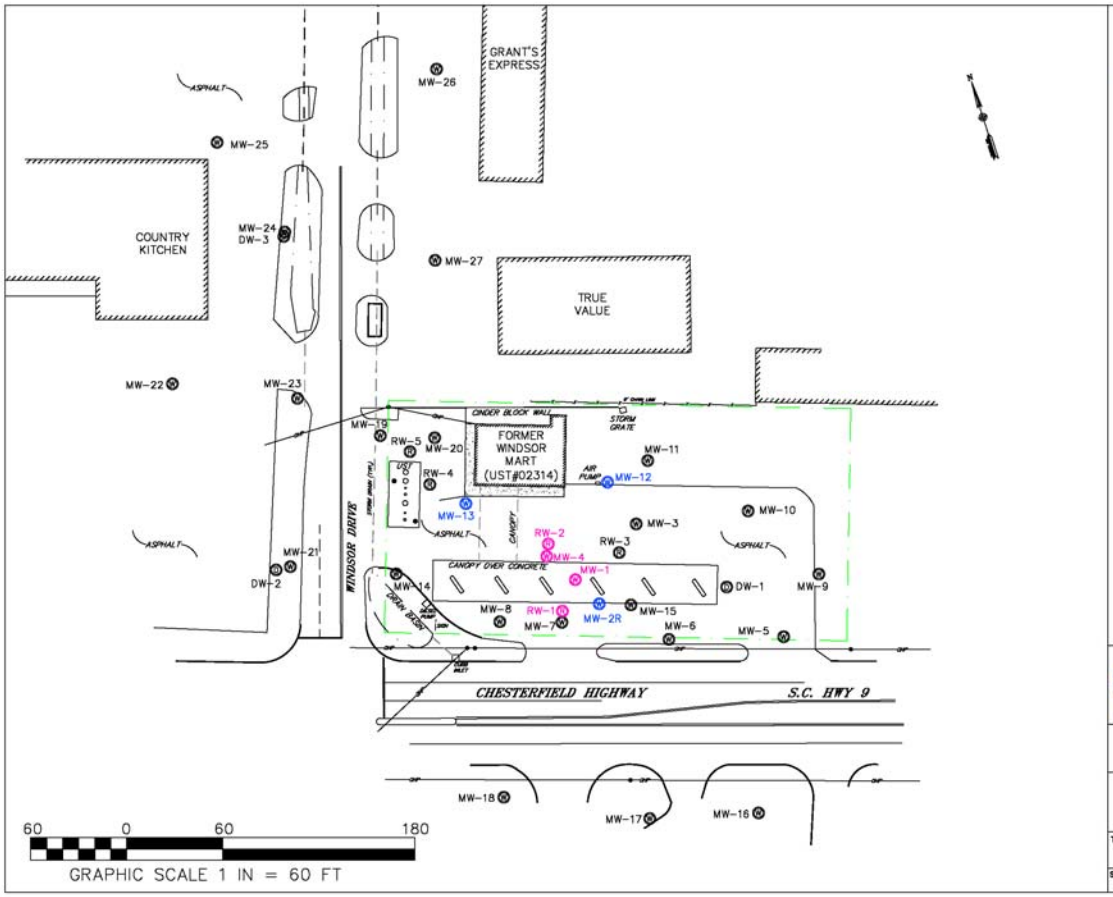
The disposal manifests and weigh tickets for the recovery water generated during the June 18-22, 2018 and June 25-29, 2018 AFVR Events are included in Appendix G.

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

Well #	--	Depth to Product	Depth to Water	Product Thickness
MW-1	Initial	18.24	19.85	1.61
	Final	n/a	18.90	n/a
MW-4	Initial	17.83	19.64	1.81
	Final	n/a	18.51	n/a
RW-1	Initial	18.72	18.96	0.24
	Final	n/a	19.02	n/a
RW-2	Initial	17.65	19.45	1.80
	Final	n/a	18.37	n/a
MW-2R	Initial	n/a	18.95	n/a
	Final	n/a	19.03	n/a
MW-12	Initial	n/a	17.59	n/a
	Final	n/a	17.85	n/a
MW-13	Initial	n/a	17.74	n/a
	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

Well #	--	Depth to Product	Depth to Water	Product Thickness
RW-4	Initial	17.04	17.13	0.09
	Final	n/a	18.90	n/a
RW-5	Initial	n/a	17.35	n/a
	Final	n/a	17.91	n/a
MW-13	Initial	n/a	17.88	n/a
	Final	n/a	18.87	n/a
MW-19	Initial	17.30	17.32	0.02
	Final	17.62	17.78	0.16
MW-20	Initial	n/a	17.40	n/a
	Final	n/a	18.26	n/a



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

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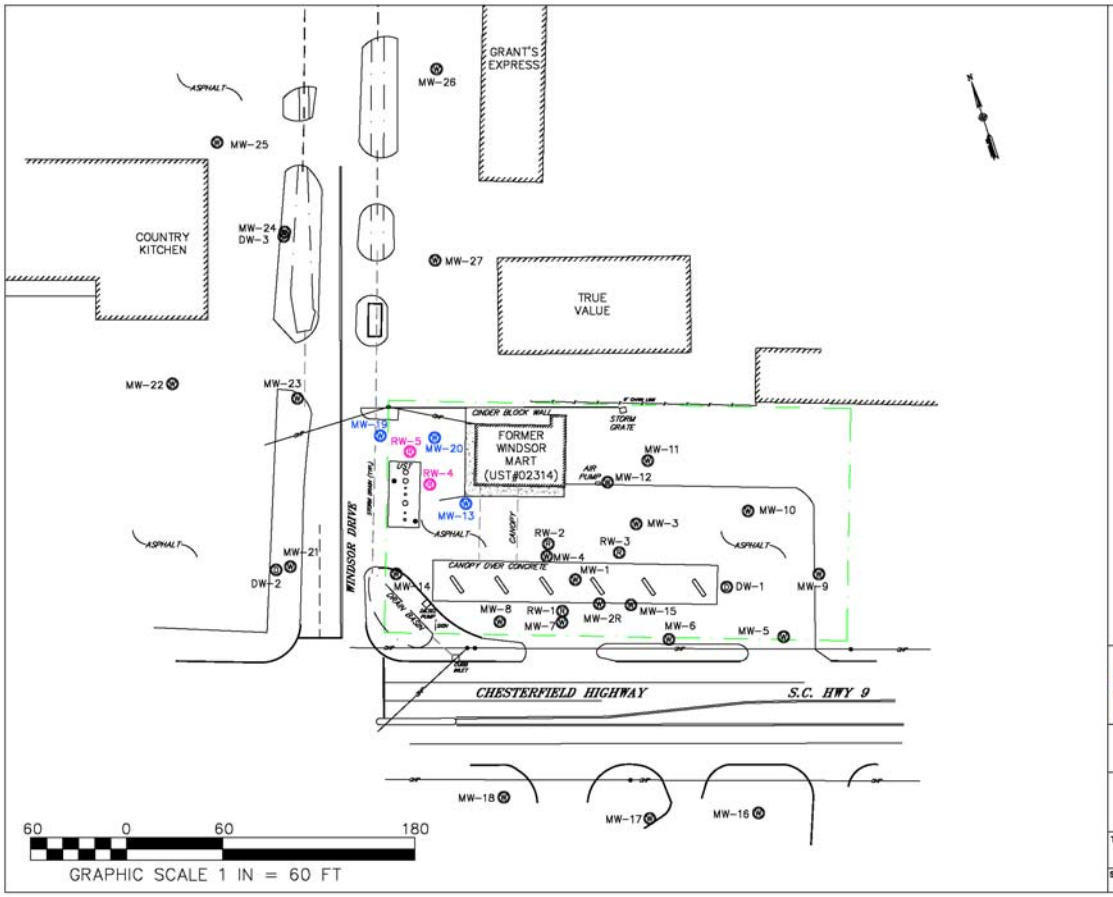
FIGURE F-8
AFVR MAP (EVENT #1)

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9J	02314
SCALE 1" = 60'	DATE June 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

- RECOVERY WELL
- INFLUENCE WELL

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FIGURE F-8
AFVR MAP (EVENT #2)

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9J	02314
SCALE 1" = 60'	DATE June 2018

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

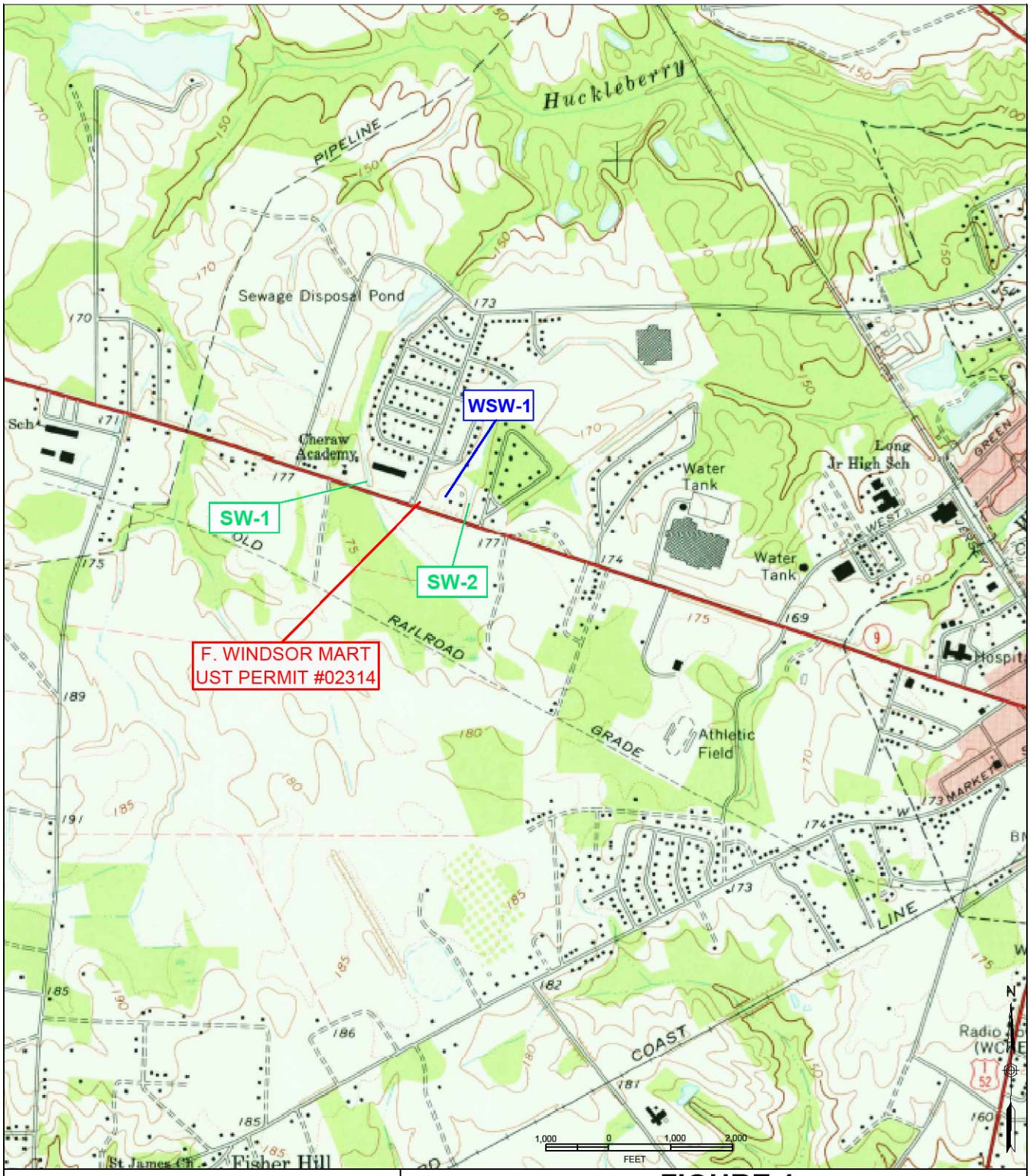

FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

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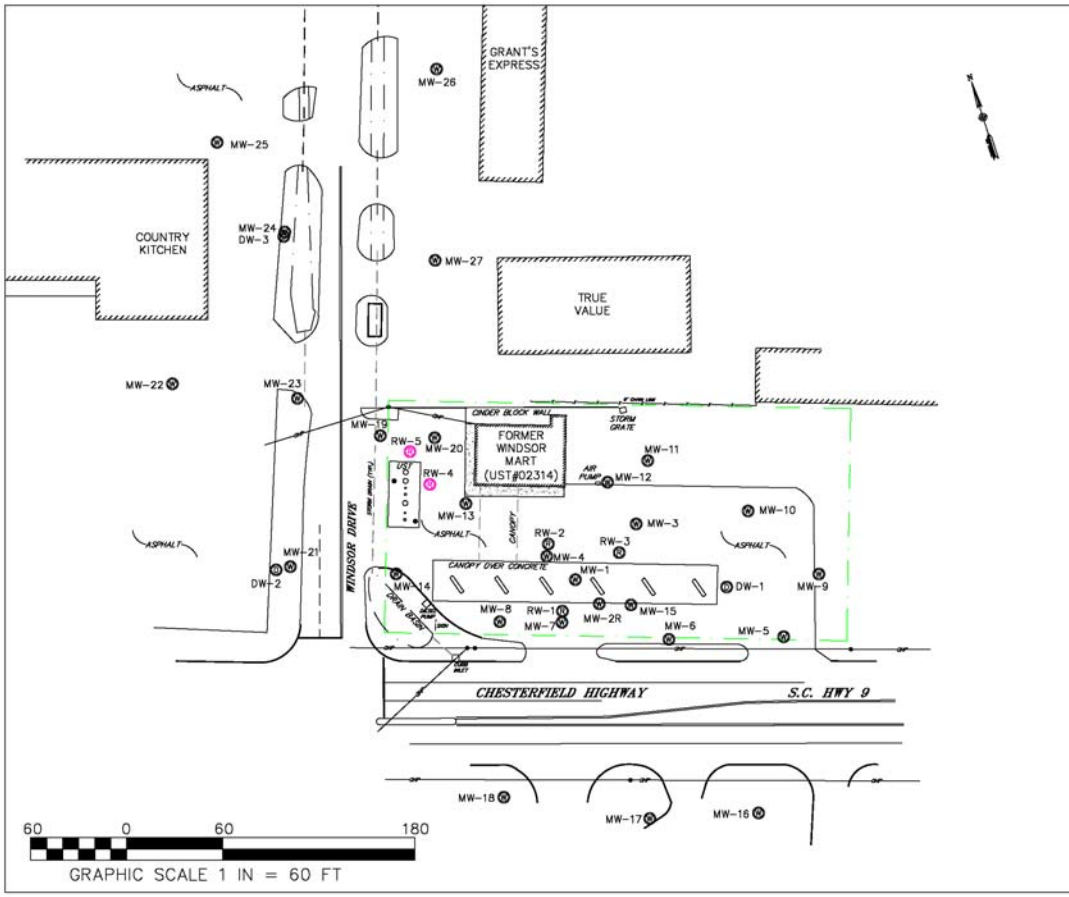
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9J	Figure 1 Topo Map	

SCALE: As Shown

DATE: June 2018



LEGEND & ABBREVIATIONS:

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- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

RW-# NEWLY INSTALLED RECOVERY WELL

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FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9J	02314
SCALE 1" = 60'	DATE June 2018

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

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WELL LOG

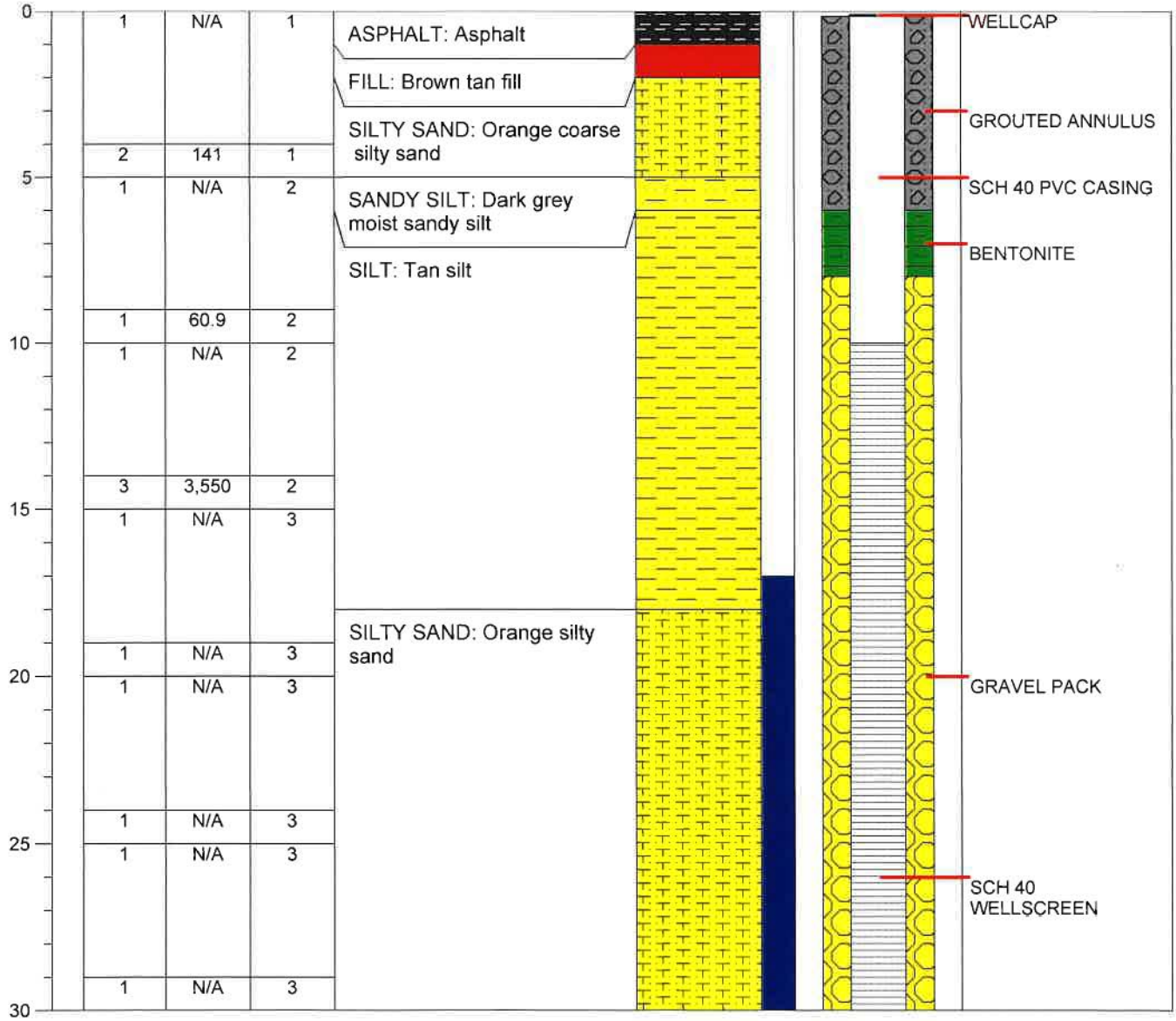
MONITORING WELL #: 02314-RW4
TERRY PROJECT: MARUTI KUNDAL
PROJECT LOCATION: CHERAW, SC

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 METHOD: HOLLOW 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

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

Depth Scale	Sample Zone	Odor 1=none 2=slight 3=strong	OVA Reading	Moisture 1=dry 2=moist 3=wet	Lithology	Water Level	Well Construction
0	1	N/A	1		ASPHALT: Asphalt		WELLCAP
					FILL: Brown tan fill		
					SILTY SAND: Orange coarse silty sand		GROUTED ANNULUS
	2	141	1				
5	1	N/A	2		SANDY SILT: Dark grey moist sandy silt		SCH 40 PVC CASING
					SILT: Tan silt		BENTONITE
	1	60.9	2				
10	1	N/A	2				
	3	3,550	2				
15	1	N/A	3				
					SILTY SAND: Orange silty sand		
	1	N/A	3				
20	1	N/A	3				GRAVEL PACK
	1	N/A	3				
25	1	N/A	3				SCH 40 WELLSCREEN
	1	N/A	3				
30							



Total Depth = 30.0 FT TOC

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WELL LOG

MONITORING WELL #: 02314-RW5
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 EXPLORATOIN
DRILLER: BRIAN THOMAS (CERT# 1465B)
DRILLING METHOD: HOLLOW STEM AUGER

HOLE DIAMETER: 8"
CASING DIAMETER: 4"
SCREEN DIAMETER: 4"
TOP OF CASING ELEVATION: 172.04
WATER LEVEL: 17
EASTING: 529.8844
NORTHING: 287.6165
DEVELOPMENT: PUMPING/SURGING

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

Depth Scale	Sample Zone	Odor 1=none 2=slight 3=strong	OVA Reading	Moisture 1=dry 2=moist 3=wet	Lithology	Water Level	Well Construction
0	1	N/A	1		ASPHALT: Asphalt		WELLCAP
					FILL: Brown tan fill		GROUTED ANNULUS
	2	21.2	1		SILTY SAND: Orange coarse silty sand		SCH 40 PVC CASING
5	1	N/A	1		SANDY SILT: Dark grey black sandy silt		
					SILT: Tan silt		BENTONITE
	2	490	2				
10	1	N/A	2				
	2	370	2				
15	1	N/A	3				
	1	N/A	3		SILTY SAND: Orange silty sand		GRAVEL PACK
20	1	N/A	3				
	1	N/A	3				
25	1	N/A	3				SCH 40 WELLSCREEN
30	1	N/A	3				

Total Depth = 30.0 FT TOC

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: 755 4TH STREET
City: HARTSVILLE State: SC Zip: 29550
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: 34° 41' 50.63" Longitude: 79° 55' 27.14"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** RW-4

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED SILTY CLAY	5.0	5.0
BLACK SILTY SAND	1.0	6.0
BROWN SILTY SANDY CLAY	10.0	16.0
TAN SILTY SAND	8.0	24.0
ORANGE SAND	6.0	30.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-27038

8. USE: RECOVERY
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30.0 ft. Date Started: 05/30/18 Date Completed: 05/30/18

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
4.0 in. to 10.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 4 INCH
Slot/Gauge: .010 Length: 20.0 FEET
Set Between: 10.0 ft. and 30.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 17.5 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 ft. to 30.0 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: ____ 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: BRIAN THOMAS **CERT. NO.:** 01465
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 06/08/18

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: JACKSON OIL COMPANY (last) (first)
Address: 755 4TH STREET
City: HARTSVILLE State: SC Zip: 29550
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** CHESTERFIELD
Name: WINDSOR MART
Street Address: 820 CHESTERFIELD HIGHWAY
City: CHERAW Zip: 29520
Latitude: 34° 41' 50.63" Longitude: 79° 55' 27.14"

3. PUBLIC SYSTEM NAME: 02314 **PUBLIC SYSTEM NUMBER:** RW-5

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
RED SILTY CLAY	5.0	5.0
BLACK SILTY SAND	1.0	6.0
BROWN SILTY SANDY CLAY	10.0	16.0
TAN SILTY SAND	8.0	24.0
ORANGE SAND	6.0	30.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL FROM 6.0 TO 8.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER: UMW-27038

8. USE: RECOVERY
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30.0 ft. Date Started: 05/30/18 Date Completed: 05/30/18

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
4.0 in. to 10.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 4 INCH
Slot/Gauge: .010 Length: 20.0 FEET
Set Between: 10.0 ft. and 30.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 17.5 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 ft. to 30.0 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: ____ 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: BRIAN THOMAS **CERT. NO.:** 01465
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 06/08/18
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: former Windsor Mart Site ID#: 02314

Date: 6/05/18 Field Personnel: T Dowdle

Drilling Company: Geologic Exploration / Terry Eplands Driller's Name: Brian Thomas / T Dowdle

Driller's Certification Number: 1465B / 2256D Weather Conditions: p/c 94

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no.		serial no.		serial no.	serial no.	
pH=4.0	4.0	standard	4.49		NTU=0.0	0.0
pH=7.0					NTU=1.0	
pH=10.0					NTU=10.0	

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# RW-4 Well Casing Diameter 4 inches Borehole Diameter 8 inches

Depth to Ground Water (DGW) 17.13 ft. Screen Length/Slot Size 20 ft./ 0.020 in.

Total Well Depth (TWD) 30.0 ft. Screen Interval 30 ft. to 10 ft.

Length of water column (LWC=TWD-DGW) 12.87 ft. Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 20 gals. Drilling Fluids recovered ——— gals.

Time (military)	1130	1134	1138	1141	1145	1147	
pH (s.u.)*	6.53	6.47	6.39	6.37	6.37	6.35	
Specific Conductivity (mmhos/cm)*	0.335	0.314	0.320	0317	0.311	0.313	
Water Temperature (C)*	24.1	22.1	22.3	22.0	22.0	22.0	
Turbidity (NTU) *	999	510	210	91.0	15.1	7.1	
Physical Characteristics (color/odor)	or	or	or	cldy	cl	cl	
Water Level Measurement (ft) from TOC	17.13	16.18	28.80	28.80	28.90	28.91	
Total Well Depth (ft) from TOC	30.0	30.0	30.0	30.0	30.0	30.0	
Cumulative Gallons Removed	0 gals	4 gals	8 gals	12 gals	16 gals	20 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: surge block then pump high flow rates IDW into tanker

Driller Signature: [signature] Date: 6/05/18

Well Development Data Verfication Form
Underground Storage Tank Management Division

Facility Name: Former Windsor Mart Site ID#: 02314

Date: 6/05/19 Field Personnel: T Dardar

Drilling Company: Terry Exploration Driller's Name: B. Thomas | T. Dardar

Driller's Certification Number: 14037 / 2565 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 meter		Temperature meter	Turbidity meter	
serial no.		serial no.		serial no.	serial no.	
pH=4.0	4.0	standard	4.49		NTU=0.0	0.0
pH=7.0					NTU=1.0	
pH=10.0					NTU=10.0	

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○

Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# RW-5 Well Casing Diameter 4 inches Borehole Diameter 8 inches

Depth to Ground Water (DGW) 17.35 ft. Screen Length/Slot Size 20 ft./ 0.010 in.

Total Well Depth (TWD) 30.0 ft. (5.26 cu) Screen Interval 30 ft. to 10 ft.

Length of water column (LWC=TWD-DGW) 12.65 ft. Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 21 gals. Drilling Fluids recovered ——— gals.

Time (military)	1155	1159	1203	1206	1210	1214	1216
pH (s.u.)*	6.37	6.39	6.47	6.35	6.35	6.37	6.37
Specific Conductivity (mmhos/cm)*	0.341	0.317	0.318	0.319	0.317	0.316	0.317
Water Temperature (C)*	24.2	22.0	22.1	22.1	22.1	22.1	22.1
Turbidity (NTU) *	995	640	510	207	15.9	15.1	6.7
Physical Characteristics (color/odor)	o:	o:	cly	cl	cl	cl	cl
Water Level Measurement (ft) from TOC	17.35	18.90	28.81	28.81	28.81	28.81	28.81
Total Well Depth (ft) from TOC	30	30.0	30.0	30.0	30.0	30.0	30.0
Cumulative Gallons Removed	0 gals	4 gals	8 gals	12 gals	16 gals	20 gals	24 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Surge block and pump high flow rate

ION to tanker

Driller Signature: [signature] Date: 6/05/19

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 6/05/18 1127 **Inspector:** TM

Solution Manufacturer: ~~Aurical~~ Extech Solutions **Lot Number:** 170643 **Expiration Date:** 6/30/19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.45 mS/cm	± 0 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	23.9 °C	23.9 °C	± 0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 6/25/18 1310 **Inspector:** JD

Solution Manufacturer: ~~Aurical~~ Easton Solutions **Lot Number:** 170643 **Expiration Date:** 6/30/19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.49 mS/cm	± 0 mS/cm
Turbidity: 0.0 NTU	0.1 NTU	± 0.1 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	24.1 °C	24.1 °C	± 0 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

APPENDIX F

Aquifer Evaluation Forms
(Not Applicable)

APPENDIX G

Disposal Manifests

NON-HAZARDOUS WASTE MANIFEST

1 Generator ID Number	2 Page 1 of	3 Job Number	4 Waste Tracking Number
Terry Environmental	1	D-06081563	1563-1

GENERATOR

5. Generator's Name and Mailing Address
Jackson Oil
755 South 4th Street
Hartsville SC 29550

Generator's Site Address (if different than mailing address)
Manud Kundal (F Windsor Mart)
820 Chesterfield Hwy
Cheraw, SC 29520

Generator's Phone:

6. Transporter 1 Company Name: JBR Environmental Services (864) 583-2717 — US EPA ID Number: SCR000004358

7. Transporter 2 Company Name — US EPA ID Number

8. Designated Facility Name and Site Address
JBR Environmental Services
210 Alice St.
Spartanburg, SC 29303 (864) 583-2717
Facility's Phone:
US EPA ID Number: SCR000004358

WET 5,220

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total	12. Unit
1	Non-DOT /Non-RCRA Regulated Material Soil Cuttings	7	DM	4,900	P
2					
3					
4					

2.61t

13. Special Handling Instructions and Additional Information
1.) Profile # TE-817905
2.) Profile #
3.) Profile #
4.) Profile #

(Truck Number) 24

(Type if Applicable) DT

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

Generator's/Offeror's Printed/Typed Name: K L Cox as agent Jackson Oil — Signature: K L Cox as agent — Month 06 Day 04 Year 18

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tim Chumley — Signature: T. Colly — Month 6 Day 18 Year 18

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

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number

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

Facility's Phone:

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

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

Printed/Typed Name: Joe Wade — Signature — Month 6 Day 18 Year 18

JBR Revision 4/13

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
820 Chesterfield Hwy
Cheraw - SC

Phone ( ) UST-02314

P O #: 2171.95

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC

Phone ( ) 843-873-9200

P O #: 25 517-488-4931

4. Transporter Company Name:
Goodsell Transport Goose Creek, SC
611 Old Mt. Holly Rd

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	107	UT	GAL	4,262

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: Ryan Palmer Signature: Ryan Palmer Date: 6/19/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: P. Berry Signature: Paul Berry Date: 6.19.18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Paul Goodsell Signature: Paul Goodsell Date 6-19-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17596

41042880
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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:

1) 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 for instructions.
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.

DATE: 6-19-2018

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

STEER AXLE	10520	lb
DRIVE AXLE	14320	lb
TRAILER AXLE	9280	lb
* GROSS WEIGHT	34120	lb

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 GOODSALE TRACTOR # 08 TRAILER # 107

FEE $11.50

WEIGHMASTER OR WEIGHER SIGNATURE IRIS RIVERA

TICKET # OF FULL $ WEIGH (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE:

IGH NUMBER
880

USTOMER COPY

© CAT Scale® Reg 3063 11/17

41042886
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 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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:

1) 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 for instructions.
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.

DATE: 6-19-2018

SCALE: 351
LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10420	lb
DRIVE AXLE	30380	lb
TRAILER AXLE	28820	lb
* GROSS WEIGHT	69620	lb

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.

35,520 net = 4,262 G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY [illegible] SCALE TRACTOR # [illegible] TRAILER # 107

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE [signature]

TICKET # OF FULL $ WEIGH (IF REWEIGH) 2AA0

KWAVASHA PATTERS

DRIVER IN TRUCK UNLESS CHECKED HERE:

© CAT Scale® Reg 3063 11/17

1131
41042886
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

TICKET NUMBER
2AA0
STOMER COPY

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):
Waste ID Number:

2. Generator's Name and Mailing Address:
Former Windsor Mart
820 Chesterfield Hwy
Cheraw, SC
Phone ( ) UST-02314
P O #:
2171.95

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC
Phone ( ) 843-873-8200
P O #: 25 517-488-4931

4. Transporter Company Name:
Goodsell Transport Goose Creek, SC
611 Old Mt Holly Rd.
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	109	VT	Gal	4587

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: Ryan Palmer Signature: Ryan Palmer Date: 6/19/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Mike Carter Signature: Mike Carter Date: 6.19.18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Mike Carter Signature: Mike Carter Date 6.19.18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17597

40982338
TICKET NUMBER

CERTIFIED
AUTOMATED
TRUCK
SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE

IMPRINT SEAL HERE
(IF APPLICABLE)

WEIGH NUMBER
2312

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 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.

WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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.
2) 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.
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.

DATE: 6-20-18

SCALE: 893

LOCATION: PILOT
I 26 EXIT 199
SUMMERVILLE SC

STEER AXLE	10060 lb
DRIVE AXLE	12800 lb
TRAILER AXLE	10400 lb
* GROSS WEIGHT	33260 lb

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: [redacted]

TRACTOR #: 109 TRAILER #: 109

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: DOMINICK BIONETTI

TICKET # OF FULL $ WEIGH (IF REWEIGH): 40982338

DRIVER IN TRUCK UNLESS CHECKED HERE:

© CAT Scale® Reg 3063 11/17

40982312
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 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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:

1) 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 for instructions.
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.

DATE: 6-19-18
16:40
40982312

SCALE: 893
LOCATION: PILOT
I 26 EXIT 199
SUMMERVILLE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10200 lb
DRIVE AXLE	18620 lb
TRAILER AXLE	17660 lb
* GROSS WEIGHT	46480 lb

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.

13,220 net = 1,5876

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL

TRACTOR #: 109 TRAILER #: 109

WEIGH NUMBER: 2312

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: DOMINICK LIONETTI

TICKET # OF FULL $ WEIGH (IF REWEIGH)

STOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE:

© CAT Scale® Reg 3063 11/17

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Ft Windsor Mart
820 Chesterfield Hwy
Cheraw, SC

Phone ( ) UST 02314

PO #: 2171.93

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC

Phone ( ) 843-873-8200

PO #: 25 517-488-4931

4. Transporter Company Name: Goodsell Transport Goose Creek, SC
611 Old Mt. Holly Rd.

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	109	VT	Gal	5,570

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: Ryan Palmer Signature: Ryan Palmer Date: 6/20/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Mike Carter Signature: Mike Carter Date: 6.20.18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Mike Carter Signature: Mike Carter Date 6-20-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17598

40982338
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 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

WEIGH WHAT WE SAY OR WE PAY®

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2) 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.
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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: 6-20-18

12:00
40982338

SCALE: 893
LOCATION: PILOT
I 26 EXIT 199
SUMMERVILLE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10060 lb
DRIVE AXLE	12800 lb
TRAILER AXLE	10400 lb
* GROSS WEIGHT	33260 lb

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

COMPANY: GOODSELL

TRACTOR #: 109 TRAILER #: 109

WEIGH NUMBER
2312

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: DOMINICK LIONETTI

TICKET # OF FULL $ WEIGH (IF REWEIGH): 40982312

DRIVER IN TRUCK UNLESS CHECKED HERE

STOMER COPY

© CAT Scale® Reg 3063 11/17

41042933
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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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: 6-20-2018

1610
41042933

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11000	lb
DRIVE AXLE	34360	lb
TRAILER AXLE	34300	lb.
* GROSS WEIGHT	79660	lb

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.

46,400 net = 5,570 6

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL — TRACTOR #: 109 — TRAILER #: 109

FEE: $10.00 — WEIGHMASTER OR WEIGHER SIGNATURE: KwaVasha Patterson — KWAVASHA PATTERS — TICKET # OF FULL $ WEIGH (IF REWEIGH):

WEIGH NUMBER 2[illegible]

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Former Windsor Mart
820 Chesterfield Hwy
Cheraw, SC

Phone ( ) UST 02314

P O #: 2171.95

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC

Phone ( ) 843-873-8200

P O #: 25 517-488-4931

4. Transporter Company Name:
Goodsell Transport Goose Creek, SC
611 Old Mt. Holly Rd

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	10 S	UT	GAL	4867

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: Ryan Palmer Signature: Ryan Palmer Date: 6/21/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: PAUL Goodsell Signature: Paul Goodsell Date: 6/21/18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: PAUL Goodsell Signature: Paul Goodsell Date 6-21-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17646

31430428
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 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. PAY. GET GOING. FIND OUT MORE AT WEIGHMYTRUCK.COM

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: 6-21-18
12:06
SCALE: 254
LOCATION: KANGAROO EXPRESS
I 26 EXIT 199B
SUMMERVILLE SC

STEER AXLE	11800 lb
DRIVE AXLE	14060 lb
TRAILER AXLE	9840 lb
* GROSS WEIGHT	35700 lb

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.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL
TRACTOR #: 04
TRAILER #: 103

WEIGH NUMBER: 0428
FEE: $11.50
WEIGHMASTER OR WEIGHER SIGNATURE: DIANA
FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

© CAT Scale® Reg 3063 07/17

31430435
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

17:54
31430435
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

THE CAT SCALE GUARANTEE

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DATE: 6-21-18
SCALE: 254
LOCATION: KANGAROO EXPRESS
I 26 EXIT 199B
SUMMERVILLE SC

STEER AXLE	11960 lb
DRIVE AXLE	33580 lb
TRAILER AXLE	30700 lb
* GROSS WEIGHT	76240 lb

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.

40,540 net = 4,867G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRACTOR #: 04 TRAILER #: 103

WEIGH NUMBER: 0428 FEE: $2.00 WEIGHMASTER OR WEIGHER SIGNATURE: D. Williams DON FULL WEIGH TICKET # (IF REWEIGH): 31430

CUSTOMER COPY

DRIVER IN TRUCK UNLESS OTHERWISE

© CAT Scale® Reg 3063 07/17

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Former Windsor Mart
820 Chesterfield Hwy.
Cheraw, SC

Phone ( ) UST: 02314

P O #: 2171.9J

3. Agent of Generator and Mailing Address:
Terry Environmental Services
PO Box 25
Summerville, SC

Phone ( ) 843 873 8200

P O #: 865 296 9912

4. Transporter Company Name: Goodsell Transport
6011 Old Mt. Holly Rd.
Goose Creek, SC

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				
	107	VT	Gal	5,124

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: Hunter Miles (AS Agent) Signature: Date: 6/22/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Mike Carter Signature: Date: 6.22.18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Mike Carter Signature: Date 6.22.18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

19572

41042998
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 GUARANTEE

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WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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DATE: 6-22-2018

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
Fflorence SC

STEER AXLE	11900 lb
DRIVE AXLE	14180 lb
TRAILER AXLE	9880 lb
* GROSS WEIGHT	35960 lb

1254
41042998
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.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: SANDY TRAILS — TRACTOR #: 107 — TRAILER #: 107

WEIGH NUMBER 2978

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: Julia Wilson
JULIA WILSON

TICKET # OF FULL $ WEIGH (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

41043003
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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DATE: 6-22-2018

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-20 EXIT 164
FLORENCE SC

1512
41043003

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	12220 lb
DRIVE AXLE	34240 lb
TRAILER AXLE	32180 lb
GROSS WEIGHT	78640 lb

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.

42,680net = 5,1296

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: CANDY TRAILS — TRACTOR #: 107 — TRAILER #:

WEIGH NUMBER 2979

FEE: $2.00 — WEIGHMASTER OR WEIGHER SIGNATURE: KENNA TRUBLES — TICKET # OF FULL $ WEIGH (IF REWEIGH): 41042998

CUSTOMER COPY

©CAT Scale® Reg 3063 11/17

US Water Recovery

Travis 843 708 1601
J Kerr 843-568-8823

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable): | Waste ID Number:

2. Generator's Name and Mailing Address:
Jackson Oil Co
Phone ( )
P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental
PO Box 25 Summerville SC 29484
Phone (843) 873 8200
P O #:

4. Transporter Company Name: GOODSELL TRANSPORT
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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	1	VT	GA	43844

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: Travis Darden (rep) Signature: Date: 6/26/18

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: 6/26/18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: PAUL Goodsell Signature: Date 6-26-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17295

41043088
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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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: 5-26-2018

740
41043088 **SCALE:** 361
LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10140 lb
DRIVE AXLE	16880 lb
TRAILER AXLE	13920 lb
*GROSS WEIGHT	40440 lb

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

COMPANY: GOODSALE TRANSPORT

TRACTOR #: 05 06

TRAILER #: 105

WEIGH NUMBER 3088

FEE $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: DENISE MCCLARY

TICKET # OF FULL $ WEIGH (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: ☐

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

41043091
*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 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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:

1) 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 for instructions.
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.

DATE: 6-26-2018

951
41043091 **SCALE:** 381
LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10260 lb
DRIVE AXLE	33640 lb
TRAILER AXLE	33060 lb
*GROSS WEIGHT	76960 lb

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)

36,520 nut = 4,384 G

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSALE TRANSPORT TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER 3088

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: TERRANCE BLOW

TICKET # OF FULL $ WEIGH (IF REWEIGH): 41043088

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3063 11/

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Former Windsor Mart
800 Chesterfield HWY
Cheraw, SC

Phone ( ) UST # 02314

P O #: 2171.95

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC

Phone (843) 873-8200

P O #: 25

4. Transporter Company Name:
Goodsell Transport Goose Creek, SC
611 Old Mt. Holly Rd.

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	Gal	5,534

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: Ryan Palmer Signature: Ryan Palmer Date: 6/27/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: P. Gray Signature: Paul Gray Date: 6.27.18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Paul Goodsell Signature: Paul Goodsell Date 6-27-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17296

3121
ET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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:

1) 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 for instructions.
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.

DATE: 6-27-2018

711 **SCALE:** 341
41043121 **LOCATION:** PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10720 lb
DRIVE AXLE	16760 lb
TRAILER AXLE	10620 lb
GROSS WEIGHT	38100 lb

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

COMPANY: GOODSELL

TRACTOR #: 08 TRAILER #: 101

WEIGH NUMBER
3121

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: BRIANA COFFIE

TICKET # OF FULL $ WEIGH (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

41043127
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

WEIGH WHAT WE SAY OR WE PAY®

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(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:

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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: 6-27-2018

907
41043127 **SCALE:** 361
LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10700 lb
DRIVE AXLE	37060 lb
TRAILER AXLE	36440 lb
GROSS WEIGHT	84200 lb

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.

46,160 net = 5,534 G

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRACTOR #: 08 TRAILER #: 101

WEIGH NUMBER 3121

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: SAVANNAH SCOTT

TICKET # OF FULL $ WEIGH (IF REWEIGH): 41043121

DRIVER IN TRUCK UNLESS CHECKED HERE: ☐

CUSTOMER COPY

© CAT Scale® Reg 3083 11/17

US Water Recovery

843-568-8823

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mast
Cheraw, SC

Phone ( ) p# 2171

P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental
Summerville, SC

Phone (843) 873 8200

P O #: P.O. Box 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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	1	VT	GAL	~~4088~~ 5655

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: Jennings Keir As Agent Signature: Date: 6/07/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: 6/27/15

11. Discrepancy Indication Space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Paul Goodall Signature: Date 6-27-15

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17297

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 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. PAY. GET GOING. FIND OUT MORE AT WEIGHMYTRUCK.COM

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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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.
2) 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.
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.

DATE: 3-13-2018

621
30836116

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10480	lb
DRIVE AXLE	15640	lb
TRAILER AXLE	11980	lb
* GROSS WEIGHT	38100	lb

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

COMPANY: GOODSELL, [illegible]

TRACTOR #: 05

TRAILER #: 105

WEIGH NUMBER
6116

FEE $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: KIERRA DAVIS

FULL WEIGH TICKET # (IF REWEIGH):

CUSTOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

© CAT Scale® Reg 3063 07/17

41043134
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

WEIGH WHAT WE SAY OR WE PAY®

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2) 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.
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.

DATE: 6-27-2018

1304
41043134 **SCALE:** 381
LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11020	lb
DRIVE AXLE	38080	lb
TRAILER AXLE	36380	lb
*GROSS WEIGHT	85480	lb

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.

47,350 net = 56886

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: 0001 GOODSELL TRANSPORT

TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER 3134

FEE $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: Kwa Vasha Patterson
KWAVASHA PATTERS

TICKET # OF FULL $ WEIGH (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

© CAT Scale® Reg 3063

US Water Recovery

843 568 8823

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
Cheraw, SC

Phone ( ) 2171.91

P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental
Summerville SC

Phone ( ) P.O. Box 25

P O #:

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water				4857

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: Jennings Kerr Assist Signature: Date: 6/28/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: 6/28/18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: PAUL Goodell Signature: Date 6-28-18

White - Facility Yellow - Office Pink - Transporter 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 GUARANTEE

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WEIGH. PAY. GET GOING. FIND OUT MORE AT WEIGHMYTRUCK.COM

WEIGH WHAT WE SAY OR WE PAY©

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2) 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.
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.

DATE: 3-13-2018

621

30836116

SCALE: 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10480 lb
DRIVE AXLE	15640 lb
TRAILER AXLE	11980 lb
*GROSS WEIGHT	38100 lb

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

COMPANY: GOODSELL

TRACTOR #: 05

TRAILER #: 105

WEIGH NUMBER
6116

FEE $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: KIERRA DAVIS

FULL WEIGH TICKET # (IF REWEIGH):

USTOMER COPY

© CAT Scale® Reg 3063 07/17

40104005
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 GUARANTEE

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DATE: 6-28-2018

SCALE: 1439

LOCATION: 947 TRAVELCENTERS OF AMERICA 195 I-95 EXIT 164 FLORENCE SC

40104005

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10540 lb
DRIVE AXLE	34840 lb
TRAILER AXLE	33180 lb
* GROSS WEIGHT	78560 lb

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.

40,460 Net = 4,857G

IMPRINT SEAL HERE (IF APPLICABLE)

DRIVER IN TRUCK UNLESS CHECKED HERE: ____

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOOD SALE TRANS

TRACTOR #: 05 TRAILER #: 105

WEIGH NUMBER: 4005

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: Tammie G.

TICKET # OF FULL $ WEIGH (IF REWEIGH): ____

TAMMIE GONZALEZ

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

US Water Recovery

845 $68 8823

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Windsor Mart
Cheraw, SC

Phone ( ) 2171.9 J

P O #:

3. Agent of Generator and Mailing Address:
Terry Environmental
P. O. Box 25

Phone ( ) Summerville, SC 29484

P O #:

4. Transporter Company Name: Goodsell Services
511 Old Mt Holly Rd
Goose Creek SC 29445

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	103	25	Gal	5441

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: Jennings Kerr Ashley Signature: Date: 6/28/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: Dan Kinsman Signature: Date: 6/28/18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Dan Kinsman Signature: Date 6/28/18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17299

41043168
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

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(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:

1) 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 for instructions.
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.

DATE: 6-28-2018

1211
41043168 **SCALE:** 381
LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	12120 lb
DRIVE AXLE	14800 lb
TRAILER AXLE	11220 lb
*GROSS WEIGHT	38140 lb

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

COMPANY: GOODSELL TRANSPORT — TRACTOR #: 04 — TRAILER #: 103

WEIGH NUMBER
3168

FEE $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: DESHONDA JACOBS

TICKET # OF FULL'S WEIGH (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE: ☐

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

41043180
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 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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:

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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.

DATE: 6-28-2018

1429
41043180 **SCALE:** 381

LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FflorENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	12500	lb
DRIVE AXLE	36280	lb
TRAILER AXLE	34680	lb
* GROSS WEIGHT	83460	lb

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.

45,320 net = 5,4416

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRANSPORT TRACTOR #: 04 TRAILER #: 103

WEIGH NUMBER 3168

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: DEENA FETROW

TICKET # OF FULL $ WEIGH (IF REWEIGH): 41043168

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Former Windsor Mart
820 Chesterfield Hwy
Cheraw, SC

Phone ( )
UST 02314
PO #: 2171.95

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC

Phone ( )
PO #: 25

4. Transporter Company Name:
Goodsell Transport
611 Old Mt. Holly Rd Goose Creek, SC

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	101	VT	GAL	5,678

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: Ryan Palmer Signature: Ryan Palmer Date: 6/28/18

10. Transporter Acknowledgement of Receipt of Materials
Printed/Typed Name: P. Berry Signature: Date: 6-28-18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials
Printed/Typed Name: Paul Goodsell Signature: Date 6-28-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17298

3121
ET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. 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®

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.

WEI
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WITH OUR AP
FIND OUT MORE AT
WEIGHMYTRUCK.COM

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.
2) 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.
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.

DATE: 6-27-2018

711 **SCALE:** 361

41043121 **LOCATION:**
PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10720 lb
DRIVE AXLE	16760 lb
TRAILER AXLE	10620 lb
*GROSS WEIGHT	38100 lb

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

COMPANY: GOODSELL

TRACTOR #: 06 TRAILER #: 101

WEIGH NUMBER: 3121

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: BRIAN D. COFFIE

TICKET # OF FULL $ WEIGH (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3083 11/

41043151
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 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

WEIGH WHAT WE SAY OR WE PAY®

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(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

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2) 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.
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.

DATE: 6-29-2018

625
41043151 **SCALE:** 321
LOCATION: PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10840 lb
DRIVE AXLE	37600 lb
TRAILER AXLE	36960 lb
*GROSS WEIGHT	85400 lb

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.

47,300 : 8 = 5,6786

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL

TRACTOR #: 08 TRAILER #: 101

WEIGH NUMBER: 3121

FEE: $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: Kim Freeman
BRIANA CUFFIE

TICKET # OF FULL $ WEIGH (IF REWEIGH): 41043121

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:
Former Windsor Mart
820 Chesterfield Hwy
Cheraw, SC

Phone ( )

P O #:

UST # 02314
2171.95

3. Agent of Generator and Mailing Address:
Terry Environmental Services
Summerville, SC

Phone ( ) 843-873-8200

P O #: ZS

4. Transporter Company Name:
Goodell Transport Goose Creek, SC
617 Old Mt. Holly Rd

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	1	VT	GAL	5,282

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: Ryan Palmer Signature: Ryan Palmer Date: 6/29/18

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: P. Bourj Signature: Paul Bourj Date: 6-29-18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Paul Goodell Signature: Paul Goodell Date 6-29-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

19520

.3121
ET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. 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.©

WEI
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WITH OUR AP
FIND OUT MORE AT
WEIGHMYTRUCK.COM

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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* 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: 6-27-2018

STEER AXLE	10720 lb
DRIVE AXLE	14740 lb
TRAILER AXLE	10620 lb
*GROSS WEIGHT	36100 lb

711 **SCALE:**
41043121 **LOCATION:**
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

3A1
PILOT TRAVEL CENTER
I-95 AND I-52 EXIT 141
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)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL

TRACTOR #: 00 TRAILER #: 101

WEIGH NUMBER: 3121

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: BRIAN T COFFIE

TICKET # OF FULL $ WEIGH (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3063 11/

40104028
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 GUARANTEE

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WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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: 6-29-2018

627
40104028 **SCALE:** 947
LOCATION: TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10640	lb
DRIVE AXLE	36040	lb
TRAILER AXLE	35420	lb
* GROSS WEIGHT	82100	lb

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.

44,000 net = 5,2826

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL TRACTOR #: 08 TRAILER #: 101

WEIGH NUMBER
4028

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: JOHN MILLER

TICKET # OF FULL $ WEIGH (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

720 Chesterfield Hwy
Cheraw, SC

Phone ( )

P O #:

3. Agent of Generator and Mailing Address:

Terry Environmental
Summerville, SC

Phone ( )

P O #:

4. Transporter Company Name:

Coastal Transport
511 Old Mt Holly Rd
Goose Creek, SC

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	10823	Tnk	Gal	60 lbs

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: Date:

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: P Berry Signature: Date: 7-2-18

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: Paul Goodall Signature: Date 7-2-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17511

31430513
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER
0512

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. PAY. GET GOING. FIND OUT MORE AT WEIGHMYTRUCK.COM

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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2) 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.
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.

DATE: 7-02-18
SCALE: 254
LOCATION: KANGAROO EXPRESS
I 26 EXIT 199B
SUMMERVILLE SC

STEER AXLE	9700 lb
DRIVE AXLE	12240 lb
TRAILER AXLE	8920 lb
* GROSS WEIGHT	30860 lb

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 SELL TRANSPORT

TRACTOR #: 06 TRAILER #: 108

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: TINA

FULL WEIGH TICKET # (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE:

© CAT Scale® Reg 3063 07/17

40104074
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 GUARANTEE

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WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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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: 7-02-2018

SCALE: 912
4010407

LOCATION: 947
TRAVELCENTERS OF AMERICA 195
I-95 EXIT 164
FLORENCE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	10780	lb
DRIVE AXLE	36540	lb
TRAILER AXLE	33660	lb
* GROSS WEIGHT	80980	lb

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 = 6,016 net

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL

TRACTOR #: 08 TRAILER #: 70823

WEIGH NUMBER
4074

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: ALAYSHIA W

TICKET # OF FULL $ WEIGH (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3063 11/17

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums

Number:

1. Generator's EPA ID# (if applicable):

Waste ID Number:

2. Generator's Name and Mailing Address:

Phone ( )

P O #:

CHESTER, SC

3. Agent of Generator and Mailing Address:

TERRY ENVIRONMENTAL

Phone ( )

P O #:

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

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	Container No.	Container Type	Unit	Quantity
a. Non-Hazardous, non-regulated waste water	1	VT	GAL	5155

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: Date:

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: MIKE WHEELER Signature: Date: 7-2-18

11. Discrepancy Indication Space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name: PAUL Woodall Signature: Date 7-2-18

White - Facility Yellow - Office Pink - Transporter Blue - Generator

17304

01430513
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

DATE: 7-02-18

14:06

SCALE: 31430513

LOCATION: KANGAROO EXPRESS
I 26 EXIT 199B
SUMMERVILLE SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER 0512

FEE $11.50

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 **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:

1) 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 for instructions.
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.

FIND OUR MEASURE AT WEIGHMYTRUCK.COM

*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	9700 lb
DRIVE AXLE	12240 lb
TRAILER AXLE	8920 lb
*GROSS WEIGHT	30860 lb

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 SELL TRANSPORT

TRACTOR #: 06

TRAILER #: 108

WEIGHMASTER OR WEIGHER SIGNATURE: TINA

FULL WEIGH TICKET # (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE: ☐

40104073
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 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 FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

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.

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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.

DATE: 7-02-2018

SCALE: 910

LOCATION: 947 TRAVELCENTERS OF AMERICA 195 I-95 EXIT 164 FLORENCE SC

40104073

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	12160	lb
DRIVE AXLE	29920	lb
TRAILER AXLE	31720	lb
* GROSS WEIGHT	73800	lb

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.

42,940 = 5,155 G
net

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: GOODSELL

TRACTOR #: 06 TRAILER #: 106

WEIGH NUMBER 4073

FEE: $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: ALAYSHIA W

TICKET # OF FULL $ WEIGH (IF REWEIGH)

CUSTOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

© CAT Scale® Reg 3063 11/17

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

Contractor Checklist – Maruti Kundal (Former Windsor Mart)

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, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X 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 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.

dhec
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NOV 14 2018

UST 42T MARKETING

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 (SCDHEC Project Manager)
From: Kelly Cone (Contractor Project Manager)
Contractor: TERRY Environmental Services, Inc. UST Contractor Certification Number: UCC-0223

Facility Name: Maruti Kundal (Former Windsor Mart) UST Permit #: 02314
Facility Address: 820 Chesterfield Highway, Cheraw, South Carolina 29520
Responsible Party: Jackson Oil Company, Inc. Phone: 843-537-7080
RP Address: 755 South 4th Street, Hartsville, SC 29550
Property Owner (if different): n/a
Property Owner Address: n/a
Current Use of Property: Gas Station and Convenience Store (Corner Cupboard)

UST 43 DOTECHS DOCKETING

UST DEC 0 3 2018 DIVISION

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

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

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

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

-- Soil	1 Water Supply Wells	-- Air	3 Field Blank
35 Monitoring Wells	2 Surface Water	3 Duplicate	3 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: -- Estimated Footage: -- feet per point
# of deep points proposed: -- Estimated Footage: -- feet per point
Field Screening Methodology: --

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: -- Estimated Footage: -- feet per point
# of deep wells: -- Estimated Footage: -- feet per point
# of recovery wells: -- Estimated Footage: -- feet per point
Comments, if warranted: --

UST Permit #: 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: 110 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 through RW-5, deep wells DW-1 through DW-3, and water supply well (WSW-1) 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 in March 2018 and per SCDHEC request will be purged 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.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

dhec
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ASSESSMENT COMPONENT 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 Agreement #:** 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**				
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 technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	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	$22.00
D1. Groundwater NP (), SW (2), or Dup (3)	5	per well/receptor	$28.00	$140.00
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	3	each	$24.60	$73.80
I. Groundwater (low flow purge)		per well/receptor	$91.00	$0.00

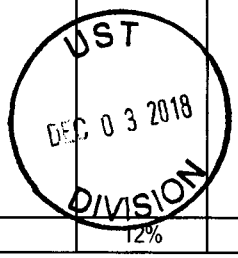
UST
DEC 03 2018
DIVISION

11. Laboratory Analyses-Groundwater					
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					
L. BTEXNM+1,2 DCA (524.2)	4	per sample	$124.05		$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)		per sample	$100.00		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	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)**					
		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

UST DEC 03 2018 DIVISION

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$12,017.30		$1,442.08
TOTAL					$13,459.38

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



DHEC

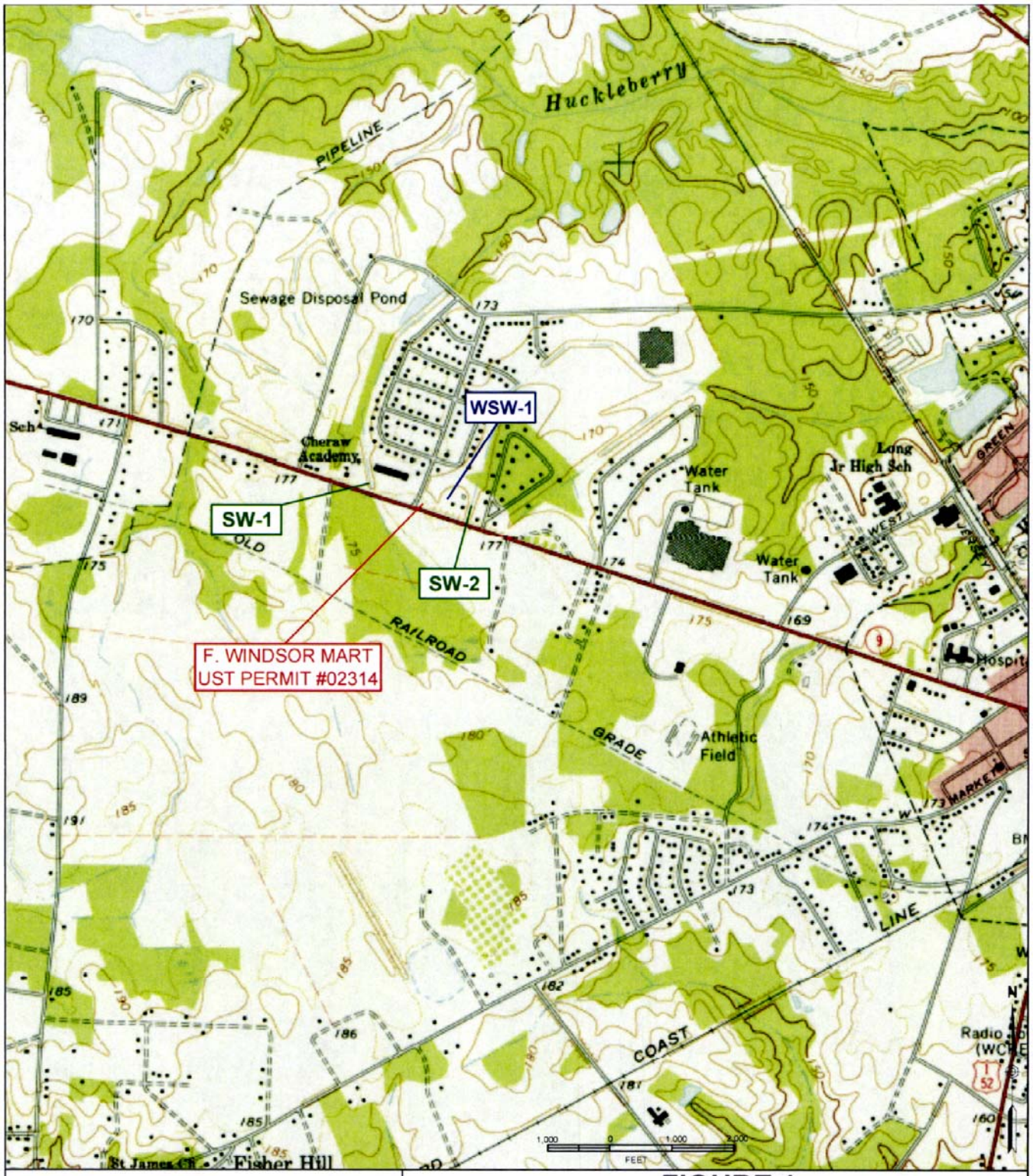


FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
CLIENTS FIRST ALWAYS

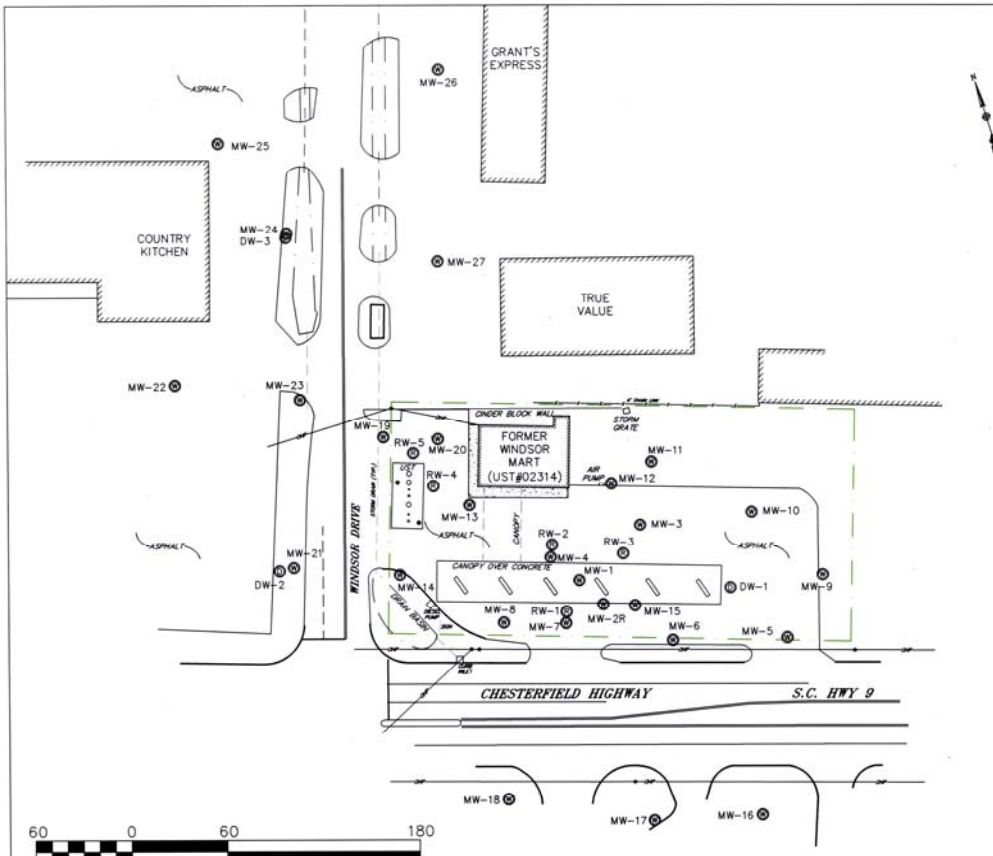
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9K	Figure 1 Topo Map	

SCALE: As Shown

DATE: November 2018



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

TERRY ENVIRONMENTAL SERVICES
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FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9K	02314
SCALE 1" = 60'	DATE November 2018

dhec
Healthy People. Healthy Communities.

DEC 12 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
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 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/ReleaseAssessmentClean-up/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	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	3.0000	$423.000	1,269.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	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	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 ☒ CD ☐ Email

Date Received Jan 24, 2019

Permit Number 02314

Project Manager Thomas Gladden

Name of Contractor Tetra Env Services

UST Certification Number Groundwater Monitoring 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:

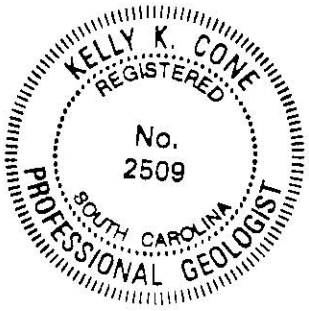
TERRY Environmental Services
CLIENTS FIRST ALWAYS

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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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
Certification:	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. 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
SCDHEC UST PERMIT #02314

02314-MW1	**12/27/2018**						
	Free Product (2.10 ft.)						
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.)						
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 ft.)						
02314-MW15	**12/27/2018**						
Volume (gal)	Initial	1.5	3.0	4.5/Sample			
Time (military)	1931	1933	1937	1939			
pH (su)	4.47	5.07	5.08	5.09			
Spec Conductivity (mS/cm)	0.178	0.072	0.070	0.068			
Water Temperature (°C)	21.6	21.4	21.3	21.2			
Turbidity (NTU)	22.7	47.9	48.1	48.8			
Dissolved Oxygen (mg/L)	2.16	1.37	1.36	1.34			
02314-MW16	**12/26/2018**						
Volume (gal)	Initial	1.75	2.5	5.5/Sample			
Time (military)	1454	1457	1500	1503			
pH (su)	4.65	4.51	4.45	4.42			
Spec Conductivity (mS/cm)	0.088	0.100	0.102	0.101			
Water Temperature (°C)	19.0	18.9	18.9	18.9			
Turbidity (NTU)	46.1	491	477	487			
Dissolved Oxygen (mg/L)	6.01	4.60	4.51	4.34			

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**						
	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**						
Volume (gal)	Initial	2	4	6/Sample			
Time (military)	1231	1235	1239	1243			
pH (su)	4.87	4.58	4.52	4.49			
Spec Conductivity (mS/cm)	0.091	0.085	0.085	0.083			
Water Temperature (°C)	20.2	19.9	19.7	19.6			
Turbidity (NTU)	402	479	485	493			
Dissolved Oxygen (mg/L)	3.34	3.57	3.61	3.66			
02314-MW23	**12/27/2018**						
Volume (gal)	Initial	2.0	4.0	6.0/Sample			
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)		
Time (military)	1739	1742	1744	1746	1748		
pH (su)	5.78	5.73	5.70	5.68			
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			

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			
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**						
Volume (gal)	Initial	2	4	6/Sample			
Time (military)	1245	1248	1252	1255			
pH (su)	4.74	4.62	4.58	4.55			
Spec Conductivity (mS/cm)	0.057	0.057	0.056	0.056			
Water Temperature (°C)	20.3	19.7	18.8	18.1			
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**						
Volume (gal)	Initial	2	4	6.25/Sample			
Time (military)	1548	1550	1553	1556			
pH (su)	4.68	4.71	4.66	4.69			
Spec Conductivity (mS/cm)	0.033	0.042	0.046	0.046			
Water Temperature (°C)	20.1	21.0	21.1	21.2			
Turbidity (NTU)	33.1	470	462	488			
Dissolved Oxygen (mg/L)	1.10	1.73	1.82	1.74			
02314-DW1	**12/26/2018**						
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**						
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					
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**						
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						
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**						
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			
Time (military)	1643	1649	1656	1700			
pH (su)	4.37	4.37	4.38	4.38			
Spec Conductivity (mS/cm)	0.249	0.251	0.253	0.255			
Water Temperature (°C)	20.0	19.9	19.7	19.6			
Turbidity (NTU)	30.2	490	494	496			
Dissolved Oxygen (mg/L)	0.98	1.77	1.78	1.80			

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

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
02314-MW1	3/19/1997	173.28	10 to 20	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
	9/26/2014			19.60	16.82	**2.78**	153.68
	2/2/2015			Free Product (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
02314-MW2	6/17/1997	100.06	10 to 20	16.04	n/a	n/a	84.02
	12/9/2013			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
	1/3/2017			15.96	n/a	n/a	157.96
	3/6/2018			Dry			
	12/28/2018			12.18	n/a	n/a	161.74
02314-MW3	6/17/1997	171.43	10 to 20	13.64	n/a	n/a	157.79
	12/9/2013			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)			
	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
02314-MW4	6/17/1997	173.39	10 to 20	15.75	n/a	n/a	157.64
	12/9/2013			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)			
	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
02314-MW5	9/29/2014	174.97	9.9 to19.9	18.51	n/a	n/a	156.46
	2/2/2015			17.10	n/a	n/a	157.87
	1/3/2017			Not Gauged			
	3/5/2018			Dry			
	12/28/2018			14.30	n/a	n/a	160.67
02314-MW6	9/29/2014	174.57	10.1 to 20.1	18.17	n/a	n/a	156.40
	2/2/2015			16.55	n/a	n/a	158.02
	1/3/2017			Not Gauged			
	3/6/2018			Dry			
	12/27/2018			12.94	n/a	n/a	161.63
02314-MW7	9/29/2014	174.20	10.3 to 20.3	18.09	17.86	**0.23**	156.11
	2/2/2015			Free Product (0.27 ft)			
	1/3/2017			16.37	n/a	n/a	157.83
	3/6/2018			19.86	19.83	0.03	154.34
	12/27/2018			12.55	n/a	n/a	161.65

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
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
	1/3/2017			15.93	n/a	n/a	157.86
	3/6/2018			19.45	n/a	n/a	154.34
	12/27/2018			12.25	n/a	n/a	161.54
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
	1/3/2017			Not Gauged			
	3/5/2018			18.30	n/a	n/a	154.42
	12/26/2018			11.20	n/a	n/a	161.52
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
	1/3/2017			Not Gauged			
	3/5/2018			17.79	n/a	n/a	154.30
	12/26/2018			11.61	n/a	n/a	160.48
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
	1/3/2017			Not Gauged			
	3/5/2018			17.83	n/a	n/a	154.24
	12/26/2018			10.68	n/a	n/a	161.39
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
	1/3/2017			Not Gauged			
	3/5/2018			18.31	n/a	n/a	154.23
	12/27/2018			11.09	n/a	n/a	161.45
02314-MW13	9/29/2014	172.64	10.3 to 20.3	17.20	n/a	n/a	155.44
	2/2/2015			15.55	n/a	n/a	157.09
	1/3/2017			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
02314-MW14	9/29/2014	172.88	10.3 to 20.3	16.75	n/a	n/a	156.13
	2/2/2015			15.15	n/a	n/a	157.73
	1/3/2017			Not Gauged			
	3/5/2018			20.39	19.41	0.98	152.49
	12/27/2018			13.40	13.90	0.50	159.48
02314-MW15	9/29/2014	173.85	10.3 to 20.3	17.90	n/a	n/a	155.95
	2/2/2015			15.85	n/a	n/a	158.00
	1/3/2017			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
02314-MW16	11/19/2014	176.97	16.0 to 26.0	21.50	n/a	n/a	155.47
	2/2/2015			18.69	n/a	n/a	158.28
	1/3/2017			Not Gauged			
	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

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
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
	1/3/2017			Not Gauged			
	3/5/2018			Dry			
	12/26/2018			14.24	n/a	n/a	161.89
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
	1/3/2017			Not Gauged			
	3/5/2018			20.97	n/a	n/a	154.62
	12/26/2018			13.91	n/a	n/a	161.68
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
	1/3/2017			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	--
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
	1/3/2017			14.30	n/a	n/a	157.52
	3/6/2018			17.74	n/a	n/a	154.08
	12/27/2018			10.52	n/a	n/a	161.30
02314-MW21	2/2/2015	173.97	13.7 to 23.7	16.55	n/a	n/a	157.42
	1/3/2017			Not Gauged			
	3/5/2018			19.88	n/a	n/a	154.09
	12/26/2018			12.59	n/a	n/a	161.38
02314-MW22	2/2/2015	171.95	12 to 22	14.65	n/a	n/a	157.30
	1/3/2017			Not Gauged			
	3/5/2018			17.98	n/a	n/a	153.97
	12/26/2018			10.68	n/a	n/a	161.27
02314-MW23	2/2/2015	171.03	11.2 to 21.2	13.72	n/a	n/a	157.31
	1/3/2017			13.65	n/a	n/a	157.38
	3/6/2018			17.04	n/a	n/a	153.99
	12/27/2018			10.45	n/a	n/a	160.58
02314-MW24	2/2/2015	169.78	11 to 21	12.54	n/a	n/a	157.24
	1/3/2017			Not Gauged			
	3/5/2018			15.90	n/a	n/a	153.88
	12/26/2018			8.70	n/a	n/a	161.08
02314-MW25	2/2/2015	170.08	11 to 21	13.00	n/a	n/a	157.08
	1/3/2017			Not Gauged			
	3/5/2018			16.26	n/a	n/a	153.82
	12/27/2018			9.75	n/a	n/a	160.33
02314-MW26	2/2/2015	169.21	10.4 to 20.4	12.24	n/a	n/a	156.97
	1/3/2017			Not Gauged			
	3/5/2018			15.42	n/a	n/a	153.79
	12/26/2018			8.18	n/a	n/a	161.03

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
02314-MW27	2/2/2015	168.95	10 to 20	11.81	n/a	n/a	157.14
	1/3/2017			Not Gauged			
	3/5/2018			14.97	n/a	n/a	153.98
	12/27/2018			7.80	n/a	n/a	161.15
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
	1/3/2017			Not Gauged			
	3/5/2018			17.33	n/a	n/a	156.26
	12/26/2018			15.79	n/a	n/a	157.80
02314-DW2	2/2/2015	174.37	44.6 to 49.6	16.59	n/a	n/a	157.78
	1/3/2017			Not Gauged			
	3/5/2018			19.82	n/a	n/a	154.55
	12/26/2018			13.06	n/a	n/a	161.31
02314-DW3	2/2/2015	169.93	44.6 to 49.6	13.72	n/a	n/a	156.21
	1/3/2017			Not Gauged			
	3/5/2018			16.50	n/a	n/a	153.43
	12/26/2018			11.02	n/a	n/a	158.91
02314-RW1	1/3/2017	Unknown	10 to 30	16.11	n/a	n/a	n/a
	3/6/2018			19.80	19.51	0.29	n/a
	12/28/2018	174.15		12.24	n/a	n/a	161.91
02314-RW2	1/3/2017	Unknown	10 to 30	15.47	n/a	n/a	n/a
	3/6/2018			19.93	18.63	1.30	n/a
	12/28/2018	173.28		11.75	n/a	n/a	161.53
02314-RW3	1/3/2017	Unknown	10 to 30	Not Gauged			
	3/6/2018			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
[1] TOC = Top of casing relative to an assumed data
* = Measured relative to TOC

**Corrected Elevation calculated using following equation:
Corrected elevation = Water table elevation + [(0.77)(free product thickness)]

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9K
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**
02314-MW1	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	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (3.34 ft.)																
	9/26/2014	Free Product (2.78 ft.)																
	1/3/2017	**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
	3/6/2018	Free Product (1.45 ft.)																
	12/27/2018	Free Product (2.10 ft.)																
02314-MW2	6/17/1997	**29**	1.25	1.13	136.1	5.5	13.7	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Could Not Find																
	9/29/2014	Could Not Find																
02314-MW2R	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
	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
	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
02314-MW3	6/17/1997	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
	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
	9/26/2014	Free Product (0.95 ft.)																
	1/3/2017	**11**	17	36	260	**28**	<5.0	<5.0	--	--	<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
02314-MW4	6/17/1997	**5,430**	**14,300**	**1,960**	**19,360**	**1,090**	<2,500	--	--	--	--	--	--	--	--	--	--	--
	12/9/2013	Free Product (1.89 ft.)																
	9/26/2014	Free Product (3.11 ft.)																
	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	Free Product (1.13 ft.)																
	12/27/2018	Free Product (0.40 ft.)																
02314-MW5	9/29/2014	**13**	110	16	100	4.8	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																
	3/5/2018	Dry																
	12/28/2018	<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-MW6	9/29/2014	1.5	8.8	2.6	21	<1.0	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	60	<5.0
	1/3/2017	Not Sampled																
	3/6/2018	Dry																
	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
02314-MW7	9/29/2014	Free Product (0.23 ft.)																
	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
	3/6/2018	Free Product (0.03 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
02314-MW8	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
	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

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9K
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**
02314-MW9	9/29/2014	0.51J	3.0	0.54J	3.0	<1.0	<1.0	<1.0	--	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																
	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
	12/26/2018	<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-MW10	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
	1/3/2017	Not Sampled																
	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
	12/26/2018	<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
02314-MW11	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
	1/3/2017	Not Sampled																
	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
	12/26/2018	<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-MW12	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
	1/3/2017	Not Sampled																
	3/5/2018	**110**	200	47	240	21	<1.0	<1.0	<0.019	--	<10	44	0.79J	<1.0	<20	<100	**3,200**	<5.0
	12/27/2018	**190**	530	99	460	21	<5.0	<5.0	<0.020	--	<50	77J	<5.0	<5.0	<100	<500	**2,400**	<25
02314-MW13	9/29/2014	**6,400**	**21,000**	**1,700**	8,600	**300**	**110J**	<200	--	--	<2,000	<4,000	**240**	<200	<4,000	<20,000	**5,400**	<1,000
	1/3/2017	**3,400**	**12,000**	**1,300**	9,100	**320**	<100	<100	--	--	<1,000	<2,000	<100	<100	<2,000	<10,000	**10,000**	<500
	3/6/2018	**3,400**	**14,000**	**1,800**	**11,000**	**440**	<100	<100	<0.019	--	<1,000	<2,000	66J	<100	<2,000	<10,000	**5,100**	<500
	12/27/2018	**1,800**	**4,700**	**1,800**	6,000	**340**	<50	<50	<0.019	--	<500	<1,000	<50	<50	<1,000	<5,000	**5,500**	<250
02314-MW14	9/29/2014	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
	1/3/2017	Not Sampled																
	3/5/2018	Free Product (0.98 ft.)																
	12/27/2018	Free Product (0.50 ft.)																
02314-MW15	9/29/2014	**2,800**	**12,000**	**750**	5,900	**120J**	<200	<200	--	--	<2,000	<4,000	<200	<200	<4,000	<20,000	**5,100**	<1,000
	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
	3/6/2018	**5,300**	**17,000**	**2,000**	8,600	**340**	<200	<200	<0.020	--	<2,000	<4,000	<200	<200	<4,000	<20,000	**10,000**	<1,000
	12/27/2018	**5,100**	**26,000**	**1,900**	**13,000**	**480**	<200	<200	<0.020	--	<2,000	<4,000	<200	<200	<4,000	<20,000	**31,000**	<1,000
02314-MW16	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
	1/3/2017	Not Sampled																
	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
	12/26/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.021	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
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	<20	<100	<20	<5.0
	1/3/2017	Not Sampled																
	3/5/2018	Dry																
	12/26/2018	<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
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
	1/3/2017	Not Sampled																
	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
	12/26/2018	<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
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
	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
	3/6/2018	Free Product (0.20 ft.)																
	12/26/2018	Free Product (>3.0 ft.)																

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9K
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**
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
	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
	3/6/2018	**2,300**	**3,600**	350	4,200	**180**	<50	<50	<0.019	--	<500	<1,000	43J	<50	<1,000	<5,000	**4,600**	<250
	12/27/2018	**3,300**	**6,600**	**840**	4,300	**220**	<50	<50	<0.019	--	<500	<1,000	<50	<50	<1,000	<5,000	**9,900**	<250
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
	1/3/2017	Not Sampled																
	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	16J	<5.0
	12/26/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.020	--	<10	<20	<1.0	<1.0	<20	<100	40	<5.0
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
	1/3/2017	Not Sampled																
	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
	12/26/2018	<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
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
	1/3/2017	**900**	**2,200**	300	2,300	**62**	<50	<50	--	--	<500	<1,000	<50	<50	<1,000	<5,000	**2,300**	<250
	3/6/2018	**1,800**	**5,500**	520	3,200	**110**	<50	<50	<0.019	--	<500	<1,000	<50	<50	<1,000	<5,000	**6,800**	<250
	12/27/2018	**1,800**	**5,900**	660	3,900	**120**	<50	<50	<0.019	--	<500	<1,000	<50	<50	<1,000	<5,000	**6,700**	<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																
	3/5/2018	**4,000**	**11,000**	**740**	4,000	**91J**	<100	<100	<0.019	--	<1,000	<2,000	48J	<100	<2,000	<10,000	**3,400**	<500
	12/26/2018	**2,200**	**9,400**	**780**	3,900	**87J**	<100	<100	<0.020	--	<1,000	<2,000	<100	<100	<2,000	<10,000	**3,700**	<500
02314-MW24 (DUP)	12/26/2018	**2,100**	**9,300**	**730**	3,900	**82**	<50	<50	<0.020	--	<500	<1,000	<50	<50	<1,000	<5,000	**3,300**	<250
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																
	3/5/2018	**220**	<5.0	<5.0	90	9.1	<5.0	<5.0	<0.019	--	<50	<100	3.2J	<5.0	<100	<500	**620**	<25
	12/27/2018	**1,200**	41	36	600	**52**	<10	<10	<0.020	--	<100	110J	16	<10	<200	<1,000	**4,500**	<50
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																
	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
	12/26/2018	<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
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	Not Sampled																
	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
	12/27/2018	**380**	7.5	2.2J	28	8.5	<5.0	<5.0	<0.020	--	<50	55J	<5.0	<5.0	<100	<500	**1,700**	<25
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
	1/3/2017	Not Sampled																
	3/5/2018	<1.0	<1.0	<1.0	0.42J	<1.0	<1.0	<1.0	<0.019	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	12/26/2018	<1.0	0.56J	<1.0	1.1	<1.0	<1.0	<1.0	<0.020	--	<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
	1/3/2017	Not Sampled																
	3/5/2018	1.7	1.5	<1.0	0.53J	<1.0	<1.0	<1.0	<0.020	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
	12/26/2018	<1.0	1.6	<1.0	2.2	<1.0	<1.0	<1.0	<0.020	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0

TABLE 3
GROUNDWATER LABORATORY DATA
WINDSOR MART
CHERAW, SOUTH CAROLINA
TERRY PROJECT #2171.9K
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**
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
	1/3/2017	Not Sampled																
	3/5/2018	0.79J	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
	12/26/2018	2.1	3.1	0.96J	7.1	1.4	<1.0	<1.0	<0.021	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-RW1	1/3/2017	**13,000**	**43,000**	**2,800**	**19,000**	**550**	**310J**	<500	--	--	**280J**	<10,000	**1,400**	<500	<10,000	<50,000	**49,000**	<2,500
	3/6/2018	Free Product (0.29 ft.)																
	12/28/2018	**11,000**	**32,000**	**1,800**	**16,000**	**810**	**160J**	<200	**2.8**	--	**190J**	<4,000	**1,000**	<200	<4,000	**770,000**	**48,000**	<1,000
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
	3/6/2018	Free Product (1.30 ft.)																
	12/28/2018	**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	1/3/2017	Not Sampled																
	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
	12/27/2018	**4,400**	**18,000**	**1,500**	9,200	**280**	<100	<100	<0.019	--	<1,000	<2,000	<100	<100	<2,000	<10,000	**23,000**	<500
02314-RW4	12/27/2018	**11,000**	**47,000**	**3,700**	**20,000**	**520**	<500	<500	<0.020	--	<5,000	<10,000	<500	<500	<10,000	**2,500,000**	**32,000**	<2,500
02314-RW4 (DUP)	12/27/2018	**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
02314-RW5	12/27/2018	**7,000**	**31,000**	**3,600**	**21,000**	**630**	<200	<200	<0.020	--	<2,000	<4,000	**190J**	<200	<4,000	**490,000**	**8,700**	<1,000
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
	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																
	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
	12/27/2018	<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-SW2	12/9/2013	Dry																
	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																
	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	150	<20	<5.0
	12/27/2018	Dry																
02314-WSW1	12/28/2018	<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-WSW1 (DUP)	12/28/2018	<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	12/26/2018	<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	12/27/2018	<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-FB3	12/28/2018	<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-TB	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	<20	<5.0
02314-WSW FB1	12/28/2018	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0096	--	<10	<20	<1.0	<1.0	<20	<100	<20	<5.0
02314-TB	12/28/2018	<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

NOTES/KEY:

-- = Not tested; not analyzed
RBSL = Risk-Based Screening Level
ug/L = micrograms per liter
mg/L = milligrams per liter
J = Estimated value
P = The RPD between two GC columns exceeds 40%
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-Dibromoethane
TAME = t-amyl methyl ether or tert-Amyl methyl ether
TBA = t-Butanol 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-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

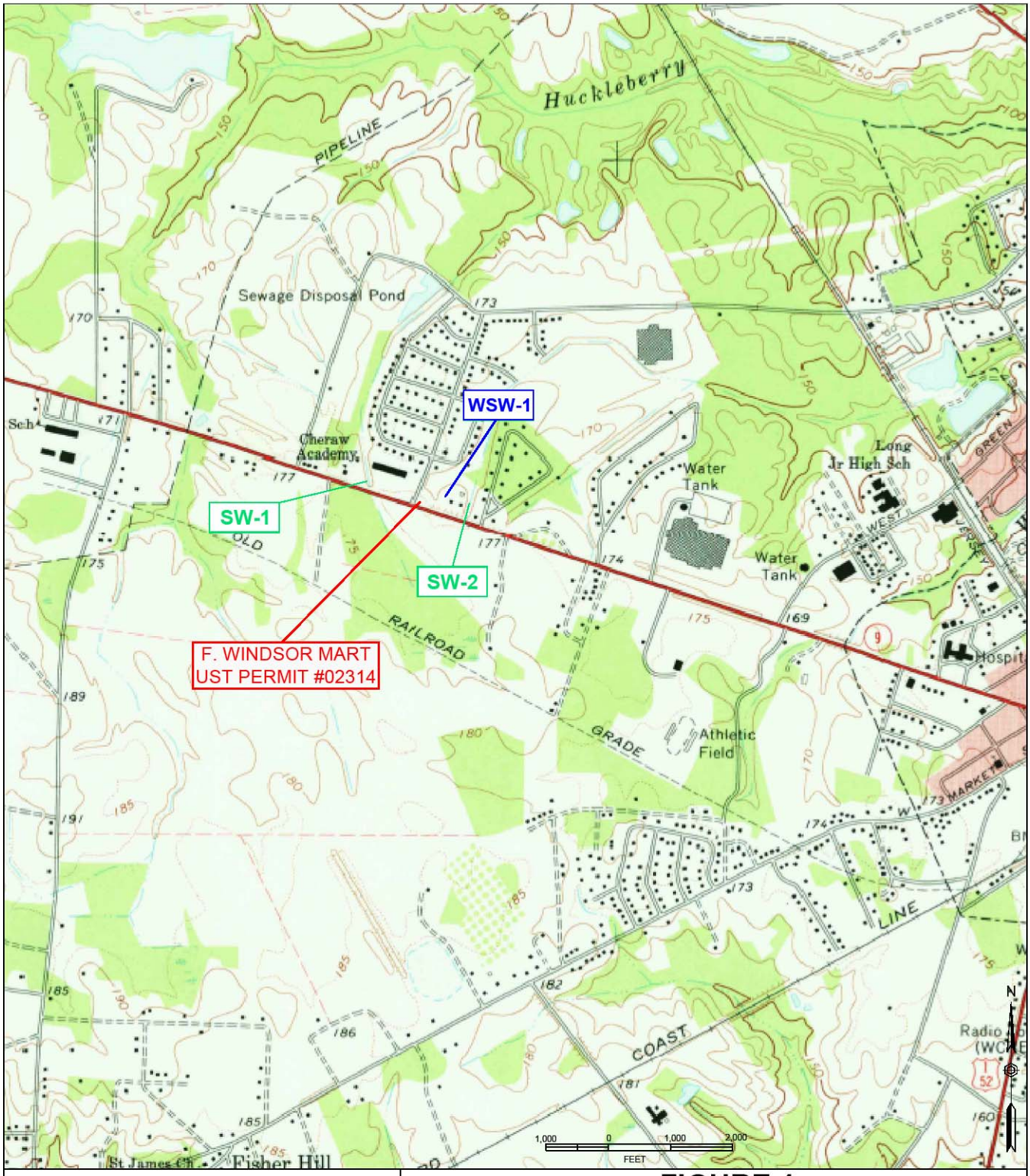

FIGURE 1
TOPOGRAPHIC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY ENVIRONMENTAL SERVICES
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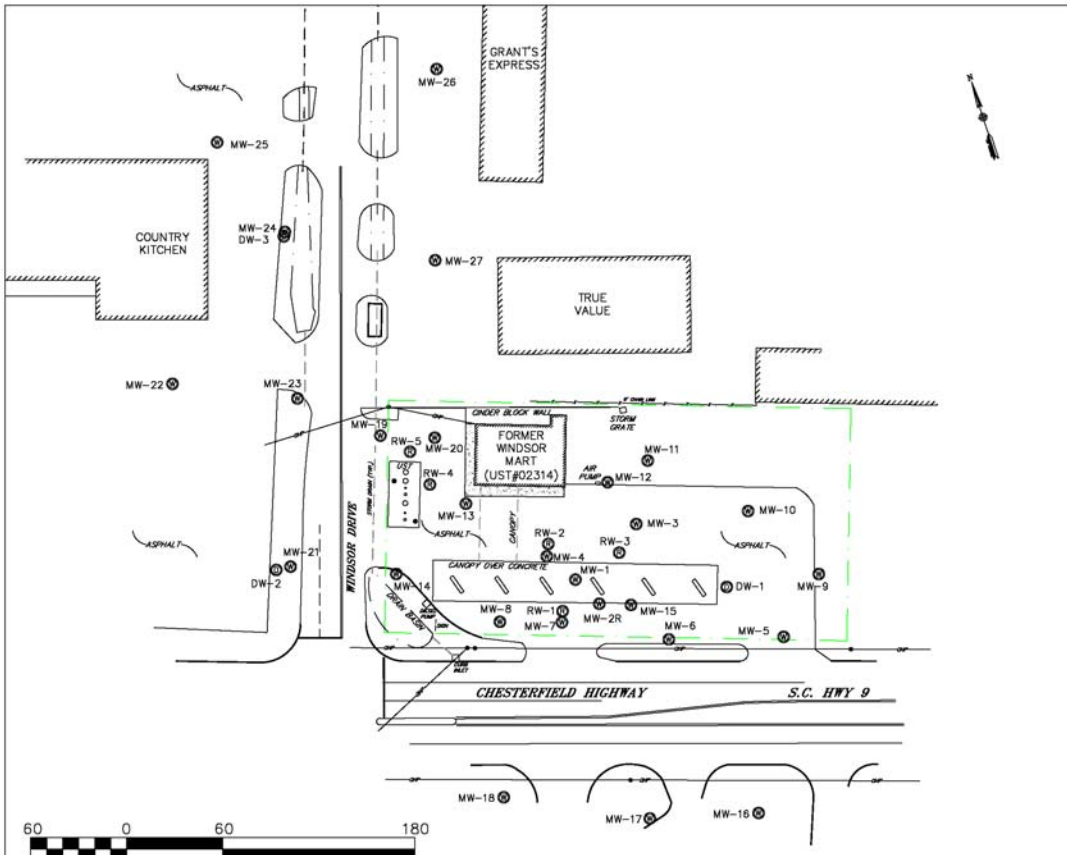
... providing our clients with the best services available, actually understanding our clients objectives, and making their obectives our own!

PO Box 25
Summerville, South Carolina 29484
(800) 325-0605 (843)-873-8200 fax: (843)-873-8765

SIZE	TERRY Project No.	DWG NO.	REV
B	2171.9K	Figure 1 Topo Map	

SCALE: As Shown

DATE: January 2019



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

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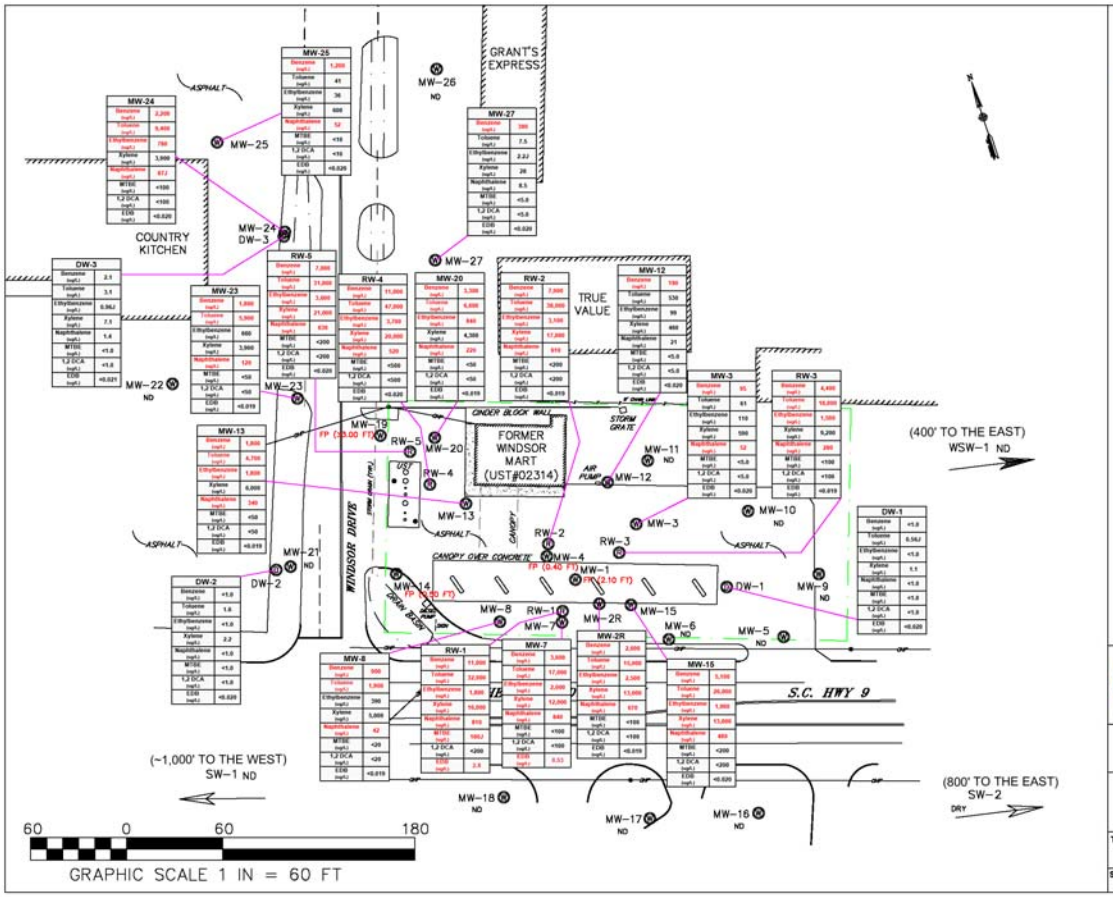
FIGURE 2
SITE BASE MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9K	02314
SCALE 1" = 60'	DATE January 2019



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- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

FP = FREE PRODUCT
EDB = 1,2-DIBROMOETHANE
MTBE = METHYL TERTIARY BUTYL ETHER
1,2 DCA = 1,2-DICHLOROETHANE
J = ESTIMATED VALUE

RED INDICATES CONTAMINANTS EXCEED RBSLs
ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS

SAMPLES COLLECTED DECEMBER 26-28, 2018

ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES
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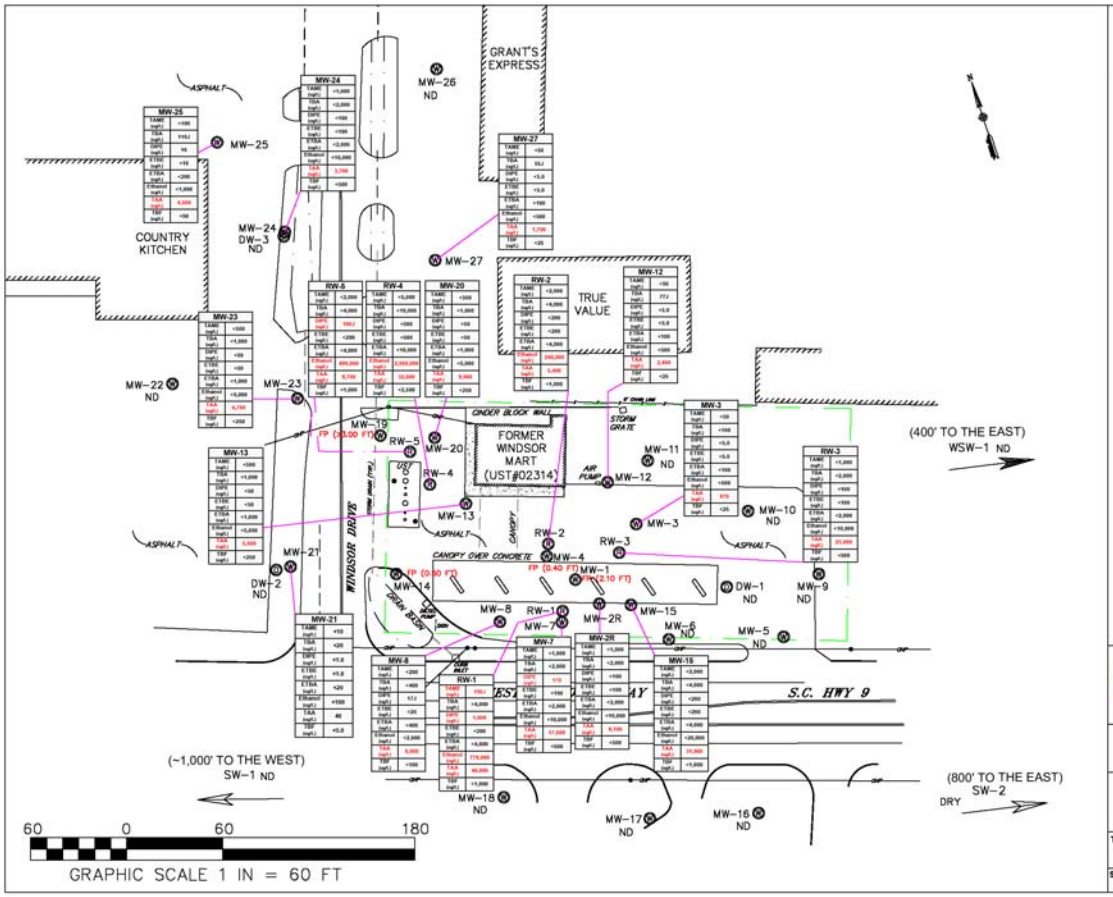
FIGURE 4A
GROUNDWATER COC MAP

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9K	02314
SCALE 1" = 60'	DATE January 2019



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

FP = FREE PRODUCT
TAME = TERT-AMYL METHYL ETHER
TBA = TERT-BUTYL ALCOHOL or T-BUTANOL
DIPE = ISOPROPYL ETHER or DIISOPROPYL ETHER
ETBE = ETHYL TERT-BUTYL ETHER
ETBA = 3,3-DIMETHYL-1-BUTANOL OR ETHYL-TERT-BUTANOL
TAA = TERT-AMYL ALCOHOL
TBF = TERT-BUTYL FORMATE
J = ESTIMATED VALUE

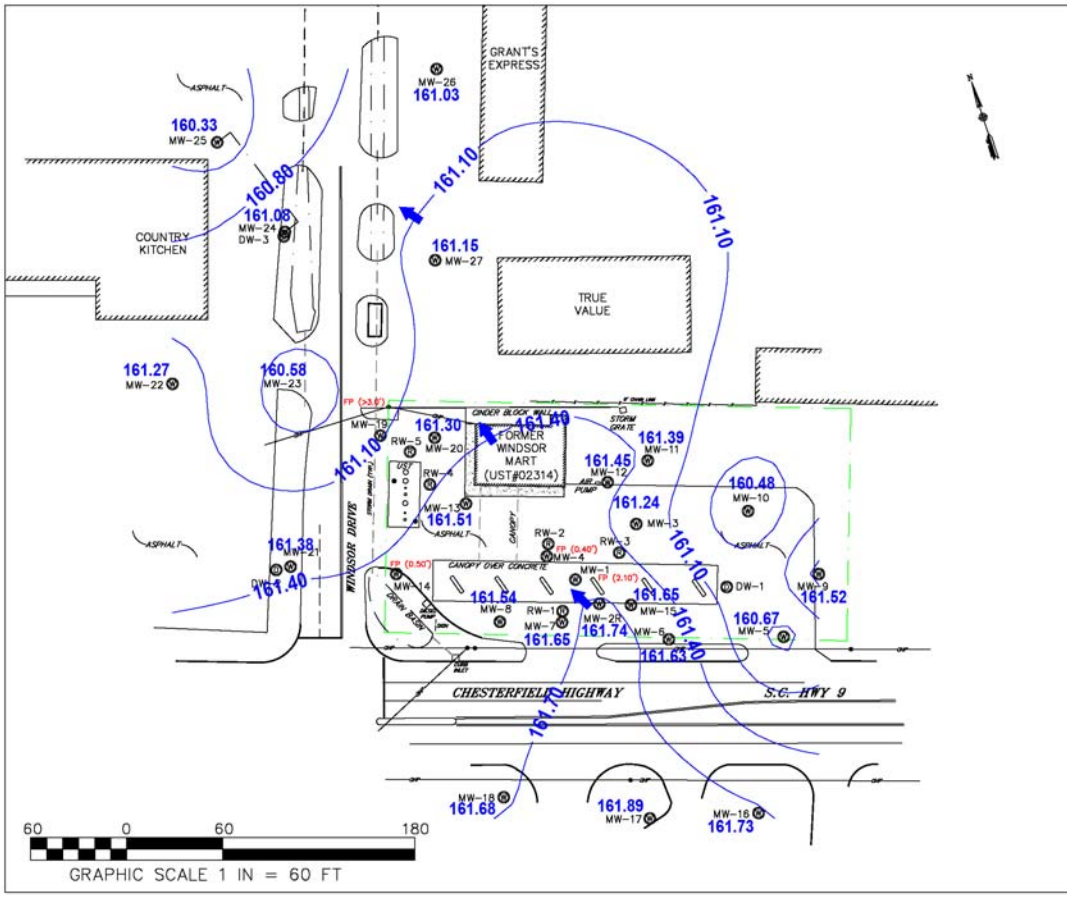
RED INDICATES CONTAMINANTS EXCEED RBSLs
ND = LABORATORY ANALYSIS INDICATES ALL CoC AT OR BELOW DETECTION LIMITS
SAMPLES COLLECTED DECEMBER 26-28, 2018
ALL MW AND SAMPLE IDENTIFICATIONS ARE PRECEDED BY UST PERMIT #02314 (ie. 02314-MW 1)

TERRY ENVIRONMENTAL SERVICES CLIENTS FIRST ALWAYS

FIGURE 4B
GROUNDWATER COC MAP
OXYGENATES

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9K	02314
SCALE 1" = 60'	DATE January 2019



LEGEND & ABBREVIATIONS:

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- POWER POLE WITH OVERHEAD POWER
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- RW-# RECOVERY WELL
- BUILDING

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

FP = FREE PRODUCT

161.74 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)

161.10 GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED ON DECEMBER 26, 27 & 28, 2018.

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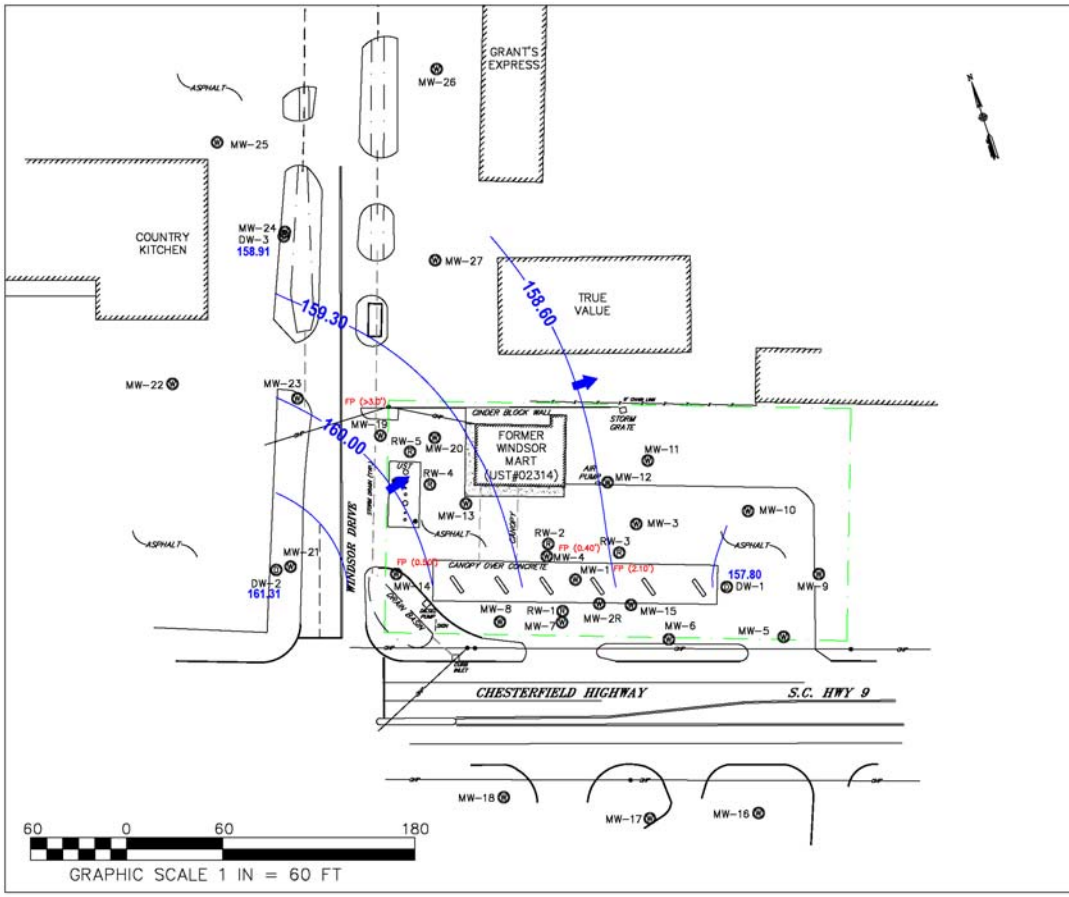
FIGURE 5A
SITE POTENTIOMETRIC MAP (SHALLOW)

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9K	02314
SCALE 1" = 60'	DATE January 2019



LEGEND & ABBREVIATIONS:

- APPROXIMATE PROPERTY LINE
- POWER POLE WITH OVERHEAD POWER
- MW-# MONITORING WELL
- DW-# DEEP MONITORING WELL
- RW-# RECOVERY WELL
- BUILDING

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

FP = FREE PRODUCT

157.80 GROUNDWATER ELEVATION (RELATIVE TO AN ASSUMED DATUM)

~159.30~ GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

MEASUREMENTS COLLECTED ON DECEMBER 26, 27 & 28, 2018.

TERRY ENVIRONMENTAL SERVICES
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FIGURE 5B
SITE POTENTIOMETRIC MAP (DEEP)

Maruti Kundal (Former Windsor Mart)
820 Chesterfield Highway
Cheraw, South Carolina

TERRY PROJECT #	SCDHEC SITE ID #
2171.9K	02314
SCALE 1" = 60'	DATE January 2019

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

FP

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 27 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	45°F

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0920		Last Verification (time)	

Monitoring Well Information

Well ID	02314 - MW1		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')	20.0	ft	
Depth to Groundwater (nearest 0.01')	13.92	ft	
Length of Water Column	6.08	ft	
1 Casing Volume (0.163)	/	ft	
3 Casing Volumes (0.489)	/	gals	
Total Volume Purged	/	gals	
Purge Technique Utilized (bailer, pump)			20.0
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)	INT										
Time (military)	0925										
pH (su)	/	NS -			FP						
Spec Conductivity (mS/cm)	/										
Water Temperature (°C)	/										
Turbidity (NTU)	/										
Dissolved Oxygen (mg/L)	/										

Well Condition Information

-overall condition acceptable?	
-well cap acceptable?	destroyed well cap → we replaced it
-manhole and cover acceptable?	Missing 2 of 2 bolts
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

No sample taken due to free product at 11.82 feet
- Extends until groundwater reached at 13.92 feet
Total length of free product 2.1 feet

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information	
Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/28/2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60°F

Monitoring Well Information			
Well ID	02314 - MW2R		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.3-20.3	ft	
Total Well Depth (nearest 0.1')	19.9	ft	
Depth to Groundwater (nearest 0.01')	12.18	ft	
Length of Water Column	7.72	ft	
1 Casing Volume (0.163)	1.26	ft	
3 Casing Volumes (0.489)	3.78	gals	
Total Volume Purged	4	gals	
Purge Technique Utilized (bailer, pump)			19.9
Well Yield	Low ☐ Medium ☑ High ☐		

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0735		Last Verification (time)		

Volume (gal)	INT	1.5	2.75	4
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

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable? missing 2 of 2 bolts
-well pad acceptable?
-area safe?
-other comments

Additional Comments

moderate sheen, strong petrol odor

HOT

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Summerville, SC 29484
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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 27 /2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	55 F

Monitoring Well Information

Well ID	02314 - MW3
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')	19.6	ft	
Depth to Groundwater (nearest 0.01')	10.19	ft	
Length of Water Column	9.41	ft	
1 Casing Volume (0.163)	1.53	ft	
3 Casing Volumes (0.489)	4.60	gals	
Total Volume Purged	5.25	gals	
Purge Technique Utilized (bailer, pump)			19.6
Well Yield	Low ☐ Medium ☑ High ☐		

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)	1500	

Volume (gal)	INT	1.75	3.5	5.25
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

Well Condition Information

-overall condition acceptable? Vault full of water & sed. mud
-well cap acceptable?
-manhole and cover acceptable? missing 2/2 bolts
-well pad acceptable?
-area safe?
-other comments

Additional Comments

FP

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/27/2018
Field Personnel	FH BF
General Weather	clear
Ambient Air Temperature	45°F

Quality Assurance

Meter	Horiba U-52-2	*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or* *Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su	*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm	*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU	*Calibration Constant*	0.0 NTU	
Last Calibration (time)	0820	*Last Verification (time)*	—	

Monitoring Well Information

Well ID	02314 - MW4		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-20	ft	
Total Well Depth (nearest 0.1')	20.0	ft	20.0
Depth to Groundwater (nearest 0.01')	13.04	ft	
Length of Water Column	6.96	ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	
Purge Technique Utilized (bailer, pump)			
Well Yield	Low ☐ Medium ☐ High ☐		

Volume (gal)	INT										
Time (military)	0944										
pH (su)											
Spec Conductivity (mS/cm)		NS - FP									
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	Vault full of water
-well cap acceptable?	
-manhole and cover acceptable?	missing 2 of 2 bolts
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

No sample due to free product @ 13.44 ft, extends for 0.40 ft w/l water reached @ 13.04 ft

DRY

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/28/2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60°F

Monitoring Well Information

Well ID	02314 - MW5
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	9.9-19.9	ft
Total Well Depth (nearest 0.1')	19.9	ft
Depth to Groundwater (nearest 0.01')	14.30	ft
Length of Water Column	5.60	ft
1 Casing Volume (0.163)	0.91	ft
3 Casing Volumes (0.489)	2.73	gals
Total Volume Purged	3.00	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

19.9

Purge Technique Utilized (bailer / pump)

Well Yield — Low ☐ Medium ☑ High ☐

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	0735	Last Verification (time)		

Volume (gal)	INT	1	2	3
Time (military)	0849	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)	31	457	458	461
Dissolved Oxygen (mg/L)	2.80	2.62	2.60	2.58

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /27 /2018
Field Personnel	FH BF
General Weather	clear
Ambient Air Temperature	55F

Monitoring Well Information

Well ID	02314 - MW6
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.1 - 20.1	ft
Total Well Depth (nearest 0.1')	20.2	ft
Depth to Groundwater (nearest 0.01')	12.94	ft
Length of Water Column	7.26	ft
1 Casing Volume (0.163)	1.18	ft
3 Casing Volumes (0.489)	3.55	gals
Total Volume Purged	4.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.2

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☑ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)	1500 / 1900	

Volume (gal)	INT	1.5	3	4.5
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

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

FP

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 27 /2018
Field Personnel	FH BF
General Weather	~~clear~~ overcast
Ambient Air Temperature	~~55F~~ 55F

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0820		Last Verification (time)	1500/1900

Monitoring Well Information

Well ID	02314 - MW7
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.5	ft
Depth to Groundwater (nearest 0.01')	12.55	ft
Length of Water Column	7.95	ft
1 Casing Volume (0.163)	1.30	ft
3 Casing Volumes (0.489)	3.89	gals
Total Volume Purged	4.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.5

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☑ High ☐

Volume (gal)	INT	1.5	2.75	4.25
Time (military)	2027	2030	2032	2035
pH (su)	4.80	4.98	5.03	5.01
Spec Conductivity (mS/cm)	0.077	0.091	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

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	↓

Additional Comments

moderate petrol odor

HOT

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 27 /2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW8
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.4	ft
Depth to Groundwater (nearest 0.01')	12.25	ft
Length of Water Column	8.15	ft
1 Casing Volume (0.163)	1.33	ft
3 Casing Volumes (0.489)	3.99	gals
Total Volume Purged	4.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.4

Purge Technique Utilized (bailer) pump)

Well Yield Low ☐ Medium ☒ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)	1500/1900	

Volume (gal)	INT	1.5	3.0	4.5
Time (military)	2042	2045	2048	2051
pH (su)	5.18	5.59	5.66	5.66
Spec Conductivity (mS/cm)	0.099	0.125	0.127	0.127
Water Temperature (°C)	21.3	22.2	22.4	22.5
Turbidity (NTU)	33.5	42.6	43.2	44.6
Dissolved Oxygen (mg/L)	1.24	1.13	1.08	1.12

Well Condition Information

-overall condition acceptable? _____
-well cap acceptable? _____
-manhole and cover acceptable? A missing 2 of 2 bolts
-well pad acceptable? _____
-area safe? _____
-other comments _____

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 26 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW9
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	9.9-19.9	ft
Total Well Depth (nearest 0.1')	19.9	ft
Depth to Groundwater (nearest 0.01')	11.20	ft
Length of Water Column	8.70	ft
1 Casing Volume (0.163)	1.26	ft
3 Casing Volumes (0.489)	3.77	gals
Total Volume Purged	4.0	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1': 19.9

Purge Technique Utilized (bailer, pump)

Well Yield: Low ☐ Medium ☒ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1145		Last Verification (time)	—	

Volume (gal)	INT	1.5	3	4.0
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

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/26/2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55F

Monitoring Well Information

Well ID	02314 - MW10
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.5	ft
Depth to Groundwater (nearest 0.01')	11.61	ft
Length of Water Column	8.89	ft
1 Casing Volume (0.163)	1.45	ft
3 Casing Volumes (0.489)	4.35	gals
Total Volume Purged	4.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.5

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☑ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1145		Last Verification (time)	1545	

Volume (gal)	INT	1.5	3	4.5
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)	394	415	418	420
Dissolved Oxygen (mg/L)	3.68	3.93	3.94	3.96

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 26 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55°F

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	1145		Last Verification (time)	1545

Monitoring Well Information

Well ID	02314 - MW11
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.1-20.1	ft
Total Well Depth (nearest 0.1')	20.1	ft
Depth to Groundwater (nearest 0.01')	10.68	ft
Length of Water Column	9.42	ft
1 Casing Volume (0.163)	1.54	ft
3 Casing Volumes (0.489)	4.61	gals
Total Volume Purged	5.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☑

20.1

Volume (gal)	INT	1.75	3.5	5.25
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

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

HOT

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/27/2018
Field Personnel	KH BF
General Weather	Overcast
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW12
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

			TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Well Diameter	2	in	
Screened Interval	10.3-20.3	ft	
Total Well Depth (nearest 0.1')	20.4	ft	20.4
Depth to Groundwater (nearest 0.01')	11.09	ft	
Length of Water Column	9.31	ft	
1 Casing Volume (0.163)	1.52	ft	
3 Casing Volumes (0.489)	4.55	gals	
Total Volume Purged	5	gals	

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☒ High ☐

Quality Assurance

		or		
Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	0820	Last Verification (time)	1500	

Volume (gal)	INT	1.75	3.5	5							
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)	360.2	64.2	81.3	72.2							
Dissolved Oxygen (mg/L)	0.90	1.17	1.28	1.24							

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

HOT

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/27/2018
Field Personnel	EH BF
General Weather	overcast
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW13
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.2	ft
Depth to Groundwater (nearest 0.01')	11.13	ft
Length of Water Column	9.07	ft
1 Casing Volume (0.163)	1.48	ft
3 Casing Volumes (0.489)	4.44	gals
Total Volume Purged	5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.2

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☒ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)	1500	

Volume (gal)	0	NT	1.5	3	5						
Time (military)	1721		1723	1727	1730						
pH (su)	5.606		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						

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

FP

Groundwater Sampling Log

TERRY Environmental Services
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1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /27 /2018
Field Personnel	KH BF
General Weather	Clear
Ambient Air Temperature	45°F

Monitoring Well Information

Well ID	02314 - MW14
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	13.40	ft
Length of Water Column	6.90	ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0830		Last Verification (time)		

Volume (gal)	INT										
Time (military)	0951										
pH (su)		NS - FP									
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

no sample due to free product @ 13.90 ft, extends for 0.50 ft until groundwater hit @ 13.40 ft

HOT

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 27 /2018
Field Personnel	KH BF
General Weather	drizzly
Ambient Air Temperature	55°F

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	0820	Last Verification (time)	1500 / 1900	

Monitoring Well Information

Well ID	02314 - MW1S
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.3-20.3	ft
Total Well Depth (nearest 0.1')	20.3	ft
Depth to Groundwater (nearest 0.01')	12.20	ft
Length of Water Column	8.1	ft
1 Casing Volume (0.163)	1.32	ft
3 Casing Volumes (0.489)	3.96	gals
Total Volume Purged	4.95	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.3

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☑ High ☐

Volume (gal)	INT	1.5	3.0	4.5
Time (military)	1931	1933	1937	1939
pH (su)	4.97	5.07	5.08	5.09
Spec Conductivity (mS/cm)	0.178	0.072	0.070	0.068
Water Temperature (°C)	21.0	21.4	21.3	21.2
Turbidity (NTU)	22.7	47.9	48.1	48.8
Dissolved Oxygen (mg/L)	2.16	1.37	1.36	1.34

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable? missing 1 of 2 bolts
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /26 /2018
Field Personnel	FH BF
General Weather	clear
Ambient Air Temperature	55°

Monitoring Well Information

Well ID	02314 - MW16
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	16-26	ft
Total Well Depth (nearest 0.1')	25.9	ft
Depth to Groundwater (nearest 0.01')	15.24	ft
Length of Water Column	10.66	ft
1 Casing Volume (0.163)	1.74	ft
3 Casing Volumes (0.489)	5.21	gals
Total Volume Purged	5.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

25.9

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☒ High ☐

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1145	Last Verification (time)		

Volume (gal)	INT	15	25	59							
Time (military)	1454	1457	1500	1503							
pH (su)	4.65	4.51	4.45	4.42							
Spec Conductivity (mS/cm)	0.088	0.100	0.102	0.101							
Water Temperature (°C)	19.0	18.9	18.9	18.9							
Turbidity (NTU)	410.1	491	477	487							
Dissolved Oxygen (mg/L)	10.01	4.60	4.51	4.34							

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

BEY

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /26 /2018
Field Personnel	FH BF
General Weather	clear
Ambient Air Temperature	55F

Monitoring Well Information

Well ID	02314 - MW17
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10.4-20.4	ft
Total Well Depth (nearest 0.1')	20.4	ft
Depth to Groundwater (nearest 0.01')	14.24	ft
Length of Water Column	6.16	ft
1 Casing Volume (0.163)	1.00	ft
3 Casing Volumes (0.489)	3.01	gals
Total Volume Purged	3.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.4

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☑ High ☐

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1145	Last Verification (time)	—	

Volume (gal)	INT	1.25	2.25	3.25
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

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

buried min ~2in landscaping ~~mix~~ mulch

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 26 /2018
Field Personnel	FH BF
General Weather	clear
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW18
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	14.6-24.6	ft
Total Well Depth (nearest 0.1')	24.5	ft
Depth to Groundwater (nearest 0.01')	13.91	ft
Length of Water Column	10.59	ft
1 Casing Volume (0.163)	1.73	ft
3 Casing Volumes (0.489)	5.18	gals
Total Volume Purged	5.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

24.5

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☒ X High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1145		Last Verification (time)		

Volume (gal)	INT	1.75	2.5	5.5						
Time (military)	1438	1441	1445	1450						
pH (su)	4.67	4.59	4.55	4.58						
Spec Conductivity (mS/cm)	0.114	0.119	0.113	0.114						
Water Temperature (°C)	19.9	19.9	19.9	20.0						
Turbidity (NTU)	613	488	482	493						
Dissolved Oxygen (mg/L)	4.59	4.25	4.16	4.19						

Well Condition Information

-overall condition acceptable? Yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

FP

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 26 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW19
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	23-22.3	ft
Total Well Depth (nearest 0.1')	22.3	ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals
Purge Technique Utilized (bailer, pump)		
Well Yield Low ☐ Medium ☐ High ☐		

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

22.3

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1145		Last Verification (time)	1545	

Volume (gal)	INT										
Time (military)	1810										
pH (su)		NS		-FP							
Spec Conductivity (mS/cm)											
Water Temperature (°C)											
Turbidity (NTU)											
Dissolved Oxygen (mg/L)											

Well Condition Information

-overall condition acceptable?	~~yes~~
-well cap acceptable?	well cap busted when opening, & we replaced it
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

no sample taken due to FP

depth to product - 9.28 ft → not able to detect the length of product with probe, (beep not as quick as we've heard before)

dropped bailer and when pulled out ~3ft bailer contained gasoline

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Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /27 /2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60°F

Monitoring Well Information

Well ID	02314 - MW20
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	12.2-22.2	ft
Total Well Depth (nearest 0.1')	22.2	ft
Depth to Groundwater (nearest 0.01')	10.52	ft
Length of Water Column	11.68	ft
1 Casing Volume (0.163)	1.90	ft
3 Casing Volumes (0.489)	5.71	gals
Total Volume Purged	6	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

22.2

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☒ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)	1500	

Volume (gal)	INT	2	4	6
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

Well Condition Information

-overall condition acceptable? Vault full of water
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

light sheen, moderate petrol odor

Groundwater Sampling Log

TERRY Environmental Services
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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /26 /2018
Field Personnel	KH BF
General Weather	Clear
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	13.7-23.7	ft	
Total Well Depth (nearest 0.1')	23.8	ft	
Depth to Groundwater (nearest 0.01')	12.59	ft	
Length of Water Column	11.21	ft	
1 Casing Volume (0.163)	1.83	ft	
3 Casing Volumes (0.489)	5.48	gals	
Total Volume Purged	6	gals	
Purge Technique Utilized (bailer, pump)			23.8
Well Yield	Low ☐ Medium ☐ High ☒		

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	1145		*Last Verification (time)*		

Volume (gal)	INT	2	4	6							
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							

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/26/2018
Field Personnel	FH BF
General Weather	clear
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - MW22
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	12-22	ft
Total Well Depth (nearest 0.1')	22.0	ft
Depth to Groundwater (nearest 0.01')	10.68	ft
Length of Water Column	11.32	ft
1 Casing Volume (0.163)	1.85	ft
3 Casing Volumes (0.489)	5.55	gals
Total Volume Purged	6	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

22.0

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☒

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1145		Last Verification (time)		

Volume (gal)	INT	2	4	6
Time (military)	1231	1235	1239	1243
pH (su)	4.87	4.58	4.52	4.49
Spec Conductivity (mS/cm)	0.091	0.085	0.085	0.083
Water Temperature (°C)	20.2	19.9	19.7	19.6
Turbidity (NTU)	402	479	485	493
Dissolved Oxygen (mg/L)	3.34	3.54	3.61	3.66

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/27/2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60°F

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0820		Last Verification (time)	1500

Monitoring Well Information

Well ID	02314 - MW23
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	11.2-21.2	ft
Total Well Depth (nearest 0.1')	21.3	ft
Depth to Groundwater (nearest 0.01')	10.45	ft
Length of Water Column	10.85	ft
1 Casing Volume (0.163)	1.77	ft
3 Casing Volumes (0.489)	5.31	gals
Total Volume Purged	6.0	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☒

21.3

Volume (gal)	INT	2.0	4.0	6.0							
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							

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

HOT dupe

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 26 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	50°F

Monitoring Well Information

Well ID	02314 - MW24
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	11-21	ft
Total Well Depth (nearest 0.1')	20.7	ft
Depth to Groundwater (nearest 0.01')	X.70	ft
Length of Water Column	12.00	ft
1 Casing Volume (0.163)	1.96	ft
3 Casing Volumes (0.489)	5.88	gals
Total Volume Purged	6.0	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump) — 20.7

Well Yield — Low ☐ Medium ☐ High ☒

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9
Calibration Constant	4.00 su	Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU
Last Calibration (time)	1145	Last Verification (time)	1545

Volume (gal)	INT	2	4	6
Time (military)	1739	1742	1744	1746
pH (su)	5.78	5.73	5.70	5.68
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)	376	481	479	493
Dissolved Oxygen (mg/L)	1.21	2.58	2.59	2.61

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

duplicate @ 1748

strong petrol odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 27/2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60 F

Monitoring Well Information

Well ID	02314 - MW25
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	11-21	ft
Total Well Depth (nearest 0.1')	20.4	ft
Depth to Groundwater (nearest 0.01')	9.75	ft
Length of Water Column	10.65	ft
1 Casing Volume (0.163)	1.74	ft
3 Casing Volumes (0.489)	5.21	gals
Total Volume Purged	5.5	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer / pump)

Well Yield — Low ☐ Medium ☐ High ☑

20.4

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0820		Last Verification (time)	1500

Volume (gal)	INT	1.75	3.5	5.5
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
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

Well Condition Information

-overall condition acceptable? full of water
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 26 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55°F

Quality Assurance

Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	1145	Last Verification (time)		

Monitoring Well Information

Well ID	02314 - MW26		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	2	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10.4-20.4	ft	
Total Well Depth (nearest 0.1')	19.8	ft	
Depth to Groundwater (nearest 0.01')	8.18	ft	
Length of Water Column	11.62	ft	
1 Casing Volume (0.163)	1.89	ft	
3 Casing Volumes (0.489)	5.69	gals	
Total Volume Purged	6	gals	
Purge Technique Utilized (bailer, pump)			19.8
Well Yield	Low ☐ Medium ☒ High ☐		

Volume (gal)	INT	2	4	6
Time (military)	1245	1248	1252	1255
pH (su)	4.74	4.62	4.58	4.55
Spec Conductivity (mS/cm)	0.057	0.057	0.056	0.056
Water Temperature (°C)	20.3	19.7	18.8	18.1
Turbidity (NTU)	231	84.4	81.2	78.4
Dissolved Oxygen (mg/L)	3.44	2.95	2.90	2.87

Well Condition Information

-overall condition acceptable? yes
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

HOT

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/27/2018
Field Personnel	KH BF
General Weather	Overcast
Ambient Air Temperature	60°F

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0820		Last Verification (time)	1500

Monitoring Well Information

Well ID	02314 - MW27
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	2	in
Screened Interval	10-20	ft
Total Well Depth (nearest 0.1')	20.2	ft
Depth to Groundwater (nearest 0.01')	7.80	ft
Length of Water Column	12.40	ft
1 Casing Volume (0.163)	2.02	ft
3 Casing Volumes (0.489)	6.06	gals
Total Volume Purged	6.25	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

20.2

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☒ High ☐

Volume (gal)	NT	2	4	6.25							
Time (military)	1548	1550	1553	1556							
pH (su)	4.68	4.71	4.66	4.69							
Spec Conductivity (mS/cm)	0.033	0.042	0.046	0.046							
Water Temperature (°C)	20.1	21.0	21.1	21.2							
Turbidity (NTU)	33.1	470	462	488							
Dissolved Oxygen (mg/L)	1.10	1.73	1.82	1.74							

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/26/2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55.F

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	1145		Last Verification (time)	1545

Monitoring Well Information

Well ID	02314 - DW1	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB	
Well Diameter	2	in
Screened Interval	49.6-54.6	ft
Total Well Depth (nearest 0.1')	55.4	ft
Depth to Groundwater (nearest 0.01')	15.79	ft
Length of Water Column	39.61	ft
1 Casing Volume (0.163)	6.46	ft
3 Casing Volumes (0.489)	19.37	gals
Total Volume Purged	20	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☒ Medium ☐ High ☐

55.4

Volume (gal)	INT	7	14	20
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

Well Condition Information

-overall condition acceptable? vault full of sediment
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

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Summerville, SC 29484
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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/26/2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55°F

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	1145		Last Verification (time)	—	

Monitoring Well Information

Well ID	02314 - DW2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

			TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Well Diameter	2	in	
Screened Interval	44.6-49.6	ft	
Total Well Depth (nearest 0.1')	50.3	ft	50.3
Depth to Groundwater (nearest 0.01')	13.06	ft	
Length of Water Column	37.24	ft	
1 Casing Volume (0.163)	6.07	ft	
3 Casing Volumes (0.489)	18.21	gals	
Total Volume Purged	6.25	gals	

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☒ Medium ☐ High ☐

Volume (gal)	INT	6.25									
Time (military)	1328	1356	PURGE DRY - 1 CV								
pH (su)	5.66	5.54									
Spec Conductivity (mS/cm)	0.072	0.049									
Water Temperature (°C)	19.1	19.6									
Turbidity (NTU)	37.7	491									
Dissolved Oxygen (mg/L)	5.70	4.36									

Well Condition Information

-overall condition acceptable?
-well cap acceptable? well cap was not securely in casing
-manhole and cover acceptable? missing 1 of 2 bolts
-well pad acceptable?
-area safe?
-other comments

Additional Comments

PURGE DRY AFTER ONE CASING VOLUME

LET RECHARGE ~ 10 mins BEFORE SAMPLE

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 26 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	55F

Quality Assurance

Meter	Horiba U-52-2		*Meter*	Horiba U-52-2	
Serial Number	VPTPGA3X	*or*	*Serial Number*	V3KNWUE9	
Calibration Constant	4.00 su		*Calibration Constant*	4.00 su	
Calibration Constant	4.49 mS/cm		*Calibration Constant*	4.49 mS/cm	
Calibration Constant	0.0 NTU		*Calibration Constant*	0.0 NTU	
Last Calibration (time)	1145		*Last Verification (time)*		

Monitoring Well Information

Well ID	02314 - DW13	
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB	
Well Diameter	2	in
Screened Interval	49.6-49.6	ft
Total Well Depth (nearest 0.1')	50.2	ft
Depth to Groundwater (nearest 0.01')	11.02	ft
Length of Water Column	39.18	ft
1 Casing Volume (0.163)	6.39	ft
3 Casing Volumes (0.489)	19.16	gals
Total Volume Purged	7.0	gals
Purge Technique Utilized (bailer, pump)	(bailer)	
Well Yield	Low ☑ Medium ☐ High ☐	

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

50.2

Volume (gal)	INT	7.0	PURGE								
Time (military)	1208	1228	DRY	—	1	C	V				
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									

Well Condition Information

-overall condition acceptable?	
-well cap acceptable?	
-manhole and cover acceptable?	missing 1/2 bolts
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

SULFUR ODOR

PURGE DRY AFTER ONE CASING VOLUME
LET RECHARGE ~10 MINS BEFORE SAMPLE

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /28/2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60·F

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0735		Last Verification (time)	—

Monitoring Well Information

Well ID	02314 - RW1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	29.9	ft
Depth to Groundwater (nearest 0.01')	12.24	ft
Length of Water Column	17.66	ft
1 Casing Volume (0.163)	11.53	ft
3 Casing Volumes (0.489)	34.59	gals
Total Volume Purged	36	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

29.9

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☒

Volume (gal)	INT	12	24	36							
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							

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

mod-high petrol odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12/28/2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60°F

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0735		Last Verification (time)	—

Monitoring Well Information

Well ID	02314 - ~~RW2~~		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	4	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-30	ft	
Total Well Depth (nearest 0.1')	30.1	ft	
Depth to Groundwater (nearest 0.01')	11.75	ft	
Length of Water Column	18.35	ft	
1 Casing Volume (0.163)	11.98	ft	
3 Casing Volumes (0.489)	35.95	gals	
Total Volume Purged	36.0	gals	
Purge Technique Utilized (bailer, pump)			30.1
Well Yield	Low ☐ Medium ☐ High ☑		

Volume (gal)	INT	12	24	36
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

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

Strong petrol odor

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /27/2018
Field Personnel	KH BF
General Weather	Overcast
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - RW3		
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB		
Well Diameter	4	in	TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Screened Interval	10-30	ft	
Total Well Depth (nearest 0.1')	30.0	ft	
Depth to Groundwater (nearest 0.01')	11.78	ft	
Length of Water Column	18.22	ft	
1 Casing Volume (0.163)	11.90	ft	
3 Casing Volumes (0.489)	35.69	gals	
Total Volume Purged	36.0	gals	
Purge Technique Utilized (bailer, pump)			30.0
Well Yield	Low ☐ Medium ☑ High ☒		

Quality Assurance

Meter	Horiba U-52-2	or	Meter	Horiba U-52-2
Serial Number	VPTPGA3X		Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0820		Last Verification (time)	1500/1900

Volume (gal)	INT	12	24	36
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

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

initial sample dupe

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
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Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 27 /2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	55°F

Monitoring Well Information

Well ID	02314 - RW4
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	30.9	ft
Depth to Groundwater (nearest 0.01')	10.50	ft
Length of Water Column	20.4	ft
(0.653) 1 Casing Volume ~~(0.163)~~	13.32	ft
(1.959) 3 Casing Volumes ~~(1.959)~~	40.0	gals
Total Volume Purged	40.0	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.9

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☒

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)	1500	

Volume (gal)	INT	14	28	40	
Time (military)	1747	1751	1755	1759	
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)	233	37.5	50.1	43.2	
Dissolved Oxygen (mg/L)	0.90	1.64	1.73	1.69	

Well Condition Information

-overall condition acceptable?	Yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

duplicate @ 1801

initial sample

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /27 /2018
Field Personnel	KH BF
General Weather	overcast
Ambient Air Temperature	60°F

Monitoring Well Information

Well ID	02314 - RWS
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter	4	in
Screened Interval	10-30	ft
Total Well Depth (nearest 0.1')	30.6	ft
Depth to Groundwater (nearest 0.01')	10.70	ft
Length of Water Column	19.90	ft
(0.653) 1 Casing Volume (~~0.163~~)	12.99	ft
(1.959) 3 Casing Volumes (~~0.489~~)	38.9	gals
Total Volume Purged	40	gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

30.6

Purge Technique Utilized (bailer, pump)

Well Yield — Low ☐ Medium ☐ High ☒

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)	1500	

Volume (gal)	INT	13	27	40
Time (military)	1643	1649	1656	1700
pH (su)	4.37	4.37	4.38	4.38
Spec Conductivity (mS/cm)	0.249	0.251	0.253	0.255
Water Temperature (°C)	20.0	19.9	19.7	19.6
Turbidity (NTU)	30.2	490	494	496
Dissolved Oxygen (mg/L)	0.98	1.77	1.78	1.80

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

moderate sheen, light petrol odor

dpe

Water Supply Well Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /28/2018
Field Personnel	FH BF
General Weather	overcast
Ambient Air Temperature	60°F

Monitoring Well Information

Well ID	02314 - WSW1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA (EPA 524.2); Oxygenates & Ethanol (8260B); & EDB (504.1)

Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

		or		
Meter	Horiba U-52-2	Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su	Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm	Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU	Calibration Constant	0.0 NTU	
Last Calibration (time)	0735	Last Verification (time)	—	

Volume (gal)	INT										
Time (military)	0758										
pH (su)	5.92										
Spec Conductivity (mS/cm)	0.270										
Water Temperature (°C)	15.9										
Turbidity (NTU)	0.1										
Dissolved Oxygen (mg/L)	5.41										

Well Condition Information

-overall condition acceptable?	yes
-well cap acceptable?	
-manhole and cover acceptable?	
-well pad acceptable?	
-area safe?	
-other comments	

Additional Comments

duplicate @ 0800

let run for ~5 minutes before sampling

Groundwater Sampling Log

TERRY Environmental Services — CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 /27/2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	40°F

Monitoring Well Information

Well ID	02314 - SW 1
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

Well Diameter		in
Screened Interval		ft
Total Well Depth (nearest 0.1')		ft
Depth to Groundwater (nearest 0.01')		ft
Length of Water Column		ft
1 Casing Volume (0.163)		ft
3 Casing Volumes (0.489)		gals
Total Volume Purged		gals

TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2	
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9	
Calibration Constant	4.00 su		Calibration Constant	4.00 su	
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm	
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU	
Last Calibration (time)	0820		Last Verification (time)		

Volume (gal)	INT									
Time (military)	0835									
pH (su)	4.61									
Spec Conductivity (mS/cm)	0.139									
Water Temperature (°C)	16.7									
Turbidity (NTU)	0.3									
Dissolved Oxygen (mg/L)	5.32									

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

PKV

Groundwater Sampling Log

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P.O. Box 25
Summerville, SC 29484
1-800-325-0605

Site Specific Information

Terry Project ID	2171.9K
SCDHEC Permit No.	02314
Project Name	Maruti Kundal (Former Windsor Mart)
Date	12 / 27 /2018
Field Personnel	KH BF
General Weather	clear
Ambient Air Temperature	40°F

Quality Assurance

Meter	Horiba U-52-2		Meter	Horiba U-52-2
Serial Number	VPTPGA3X	or	Serial Number	V3KNWUE9
Calibration Constant	4.00 su		Calibration Constant	4.00 su
Calibration Constant	4.49 mS/cm		Calibration Constant	4.49 mS/cm
Calibration Constant	0.0 NTU		Calibration Constant	0.0 NTU
Last Calibration (time)	0820		Last Verification (time)	

Monitoring Well Information

Well ID	02314 - SW2
Testing Parameters	BTEX, Naph, MTBE, 1,2-DCA, Oxygenates, Ethanol, & EDB

			TAG BOTTOM OF WELL TO VERIFY WELL DEPTH, WRITE BELOW TO NEAREST 0.1'
Well Diameter		in	
Screened Interval		ft	
Total Well Depth (nearest 0.1')		ft	
Depth to Groundwater (nearest 0.01')		ft	
Length of Water Column		ft	
1 Casing Volume (0.163)		ft	
3 Casing Volumes (0.489)		gals	
Total Volume Purged		gals	

Purge Technique Utilized (bailer, pump)

Well Yield Low ☐ Medium ☐ High ☐

Volume (gal)	INT									
Time (military)	0900									
pH (su)			NS - DRY							
Spec Conductivity (mS/cm)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/L)										

Well Condition Information

-overall condition acceptable?
-well cap acceptable?
-manhole and cover acceptable?
-well pad acceptable?
-area safe?
-other comments

Additional Comments

No sample - drainage ditch is dry

TERRY Environmental Services
CLIENTS FIRST ALWAYS

P O Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 12-26-18 1145 **Inspector:** KHBF

Solution Manufacturer: ~~Aurora~~ Eastern Solutions **Lot Number:** 7/2079 **Expiration Date:** 12-30-19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	16.4 °C	16.1 °C	± 0.3 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Mary Kendall (Fmr Windsor Mart) 2/7/19

TERRY Environmental Services
P.O. Box 25
Summerville, SC 29484
(843) 327-0505

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ Date/Time: 12-26-18 1345 Inspector: KH BF

Solution Manufacturer: Eastern Solutions Lot Number: 1/2d79 Expiration Date: 12.30.19

Solution Value	Instrument Reading	Accuracy
pH: 4.00	3.99	± 0.01
Conductivity: 4.49 mS/cm	4.49 mS/cm	± 0 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer:	17.2 °C	17.1 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	Accuracy
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

Inspector's Maintenance Notes

Mantis Kundal (Envirotech M-1) 2/7.9K

TERRY Environmental Services
P.O. Box 25
Summerville, SC 29484
843-323-1605

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ Date/Time: 12-26-18 1820 Inspector: KH BF

Solution Manufacturer: Eastern Solutions Lot Number: 1/2d79 Expiration Date: 12.30.19

Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.07	± 0.07
Conductivity: 4.49 mS/cm	4.48 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer:	12.8 °C	12.7 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	Accuracy
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

Inspector's Maintenance Notes

Manuel Kendal (Fmr. Windsor Mnt) 2/7.9k

TERRY Environmental Services
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P O Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 12-27-18 0820 **Inspector:** KH BF

Solution Manufacturer: ~~Aurora~~ Eastern Solutions **Lot Number:** 17/2179 **Expiration 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	± 0.04 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	5.8 °C	5.9 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Mandi Kendal (Frm. Winds & Mrt) 2/7/19

TERRY Environmental Services
PO Box 25
Summerville, SC 29484

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ Date/Time: 12-27-18 1220 Inspector: KH BF

Solution Manufacturer: Eastern Solutions Lot Number: 17279 Expiration Date: 12.30.19

Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.02	± 0.02
Conductivity: 4.49 mS/cm	4.49 mS/cm	± 0 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer:	21.8 °C	21.7 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	Accuracy
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

Inspector's Maintenance Notes

Manuf Kendal (Fmr WindSr Mnt) 2/7.9F

TERRY Environmental Services
P.O. Box 25
Summerville, SC 29484
1-843-225-1603

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ Date/Time: 12-27-18 1900 Inspector: KH BF

Solution Manufacturer: Eastern Solutions Lot Number: 17/2879 Expiration Date: 12.30.19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.04	± 0.04
Conductivity: 4.49 mS/cm	4.49 mS/cm	± 0 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	18.2 °C	18.4 °C	± 0.2 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Mount Pleasant (Fmr. Windsor Mart) 27/.9K

TERRY Environmental Services
P.O. Box 25
Summerville, SC 29484

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: VWKAUMKJ Date/Time: 12.27.18 2105 Inspector: KH BF

Solution Manufacturer: Eastern Solutions Lot Number: 7/2879 Expiration Date: 12.30.19

Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0 NTU	± 0 NTU

	Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer:	19.8 °C	19.7 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	Accuracy
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

Inspector's Maintenance Notes

Mawfi Fundal (fmr Wadsr M-1) 2/7/19

TERRY Environmental Services
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P O Box 25
Summerville, SC 29484
1-800-325-0605

HORIBA U-52-2 DAILY CALIBRATION DATA SHEET

Serial Number: VWKAUMKJ **Date/Time:** 12-28-18 0735 **Inspector:** KH BF

Solution Manufacturer: ~~Aquatic~~ Eastern Solutions **Lot Number:** 17/2079 **Expiration Date:** 12-30-19

Solution Value	*Instrument Reading*	*Accuracy*
pH: 4.00	4.00	± 0
Conductivity: 4.49 mS/cm	4.49 mS/cm	± 0 mS/cm
Turbidity: 0.0 NTU	0.2 NTU	± 0.2 NTU

	Standard Reading	*Instrument Reading*	*Accuracy*
NIST-Traceable Thermometer:	16.5 °C	16.4 °C	± 0.1 °C

QAPP Acceptance Criteria

Field Parameter	*Accuracy*
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*

Inspector's Maintenance Notes

Mowed Kudzu (For Winter Mnt) 2/7.9K

TERRY Environmental Services
P.O. Box 25
Summerville, SC 29484

HORIBA U-52-2 VERIFICATION CHECK DATA SHEET

Serial Number: YWKAUMKJ Date/Time: 12-28-18 1040 Inspector: KH BF

Solution Manufacturer: Eastern Solutions Lot Number: 1/2/19 Expiration Date: 12.30.19

Solution Value	Instrument Reading	Accuracy
pH: 4.00	4.03	± 0.03
Conductivity: 4.49 mS/cm	4.50 mS/cm	± 0.01 mS/cm
Turbidity: 0.0 NTU	0.0 NTU	± 0 NTU

	Standard Reading	Instrument Reading	Accuracy
NIST-Traceable Thermometer:	18.9 °C	18.7 °C	± 0.2 °C

QAPP Acceptance Criteria

Field Parameter	Accuracy
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

Inspector's Maintenance Notes

Mount Kindal (Fmr Windsor Mart) 2/7.9K

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 (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:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

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

Case Narrative
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
008	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

Sample	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	Aqueous	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	Aqueous	Xylenes (total)	8260B	590		ug/L	9
005	02314 MW7	Aqueous	tert-Amyl alcohol (TAA)	8260B	17000		ug/L	12
005	02314 MW7	Aqueous	Benzene	8260B	3600		ug/L	12
005	02314 MW7	Aqueous	Diisopropyl ether (IPE)	8260B	170		ug/L	12
005	02314 MW7	Aqueous	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	Aqueous	1,2-Dibromoethane (EDB)	8011	0.53		ug/L	12
006	02314 MW8	Aqueous	tert-Amyl alcohol (TAA)	8260B	6000		ug/L	13
006	02314 MW8	Aqueous	Benzene	8260B	900		ug/L	13
006	02314 MW8	Aqueous	Diisopropyl ether (IPE)	8260B	17	J	ug/L	13
006	02314 MW8	Aqueous	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	Toluene	8260B	530		ug/L	17
010	02314 MW12	Aqueous	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	Aqueous	Xylenes (total)	8260B	6000		ug/L	18
012	02314 MW15	Aqueous	tert-Amyl alcohol (TAA)	8260B	31000		ug/L	19
012	02314 MW15	Aqueous	Benzene	8260B	5100		ug/L	19
012	02314 MW15	Aqueous	Ethylbenzene	8260B	1900		ug/L	19
012	02314 MW15	Aqueous	Naphthalene	8260B	480		ug/L	19
012	02314 MW15	Aqueous	Toluene	8260B	26000		ug/L	19

Detection Summary (Continued)

Lot Number: TL28015

Sample	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	Aqueous	tert-Amyl alcohol (TAA)	8260B	4500		ug/L	28
021	02314 MW25	Aqueous	Benzene	8260B	1200		ug/L	28
021	02314 MW25	Aqueous	Diisopropyl ether (IPE)	8260B	16		ug/L	28
021	02314 MW25	Aqueous	Ethylbenzene	8260B	36		ug/L	28
021	02314 MW25	Aqueous	Naphthalene	8260B	52		ug/L	28
021	02314 MW25	Aqueous	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	Aqueous	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

Sample	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	Aqueous	Naphthalene	8260B	810		ug/L	34
027	02314 RW1	Aqueous	Toluene	8260B	32000		ug/L	34
027	02314 RW1	Aqueous	Xylenes (total)	8260B	16000		ug/L	34
027	02314 RW1	Aqueous	1,2-Dibromoethane (EDB)	8011	2.8		ug/L	34
028	02314 RW2	Aqueous	tert-Amyl alcohol (TAA)	8260B	5400		ug/L	35
028	02314 RW2	Aqueous	Benzene	8260B	7900		ug/L	35
028	02314 RW2	Aqueous	Ethanol	8260B	240000		ug/L	35
028	02314 RW2	Aqueous	Ethylbenzene	8260B	3100		ug/L	35
028	02314 RW2	Aqueous	Naphthalene	8260B	610		ug/L	35
028	02314 RW2	Aqueous	Toluene	8260B	38000		ug/L	35
028	02314 RW2	Aqueous	Xylenes (total)	8260B	17000		ug/L	35
029	02314 RW3	Aqueous	tert-Amyl alcohol (TAA)	8260B	23000		ug/L	36
029	02314 RW3	Aqueous	Benzene	8260B	4400		ug/L	36
029	02314 RW3	Aqueous	Ethylbenzene	8260B	1500		ug/L	36
029	02314 RW3	Aqueous	Naphthalene	8260B	280		ug/L	36
029	02314 RW3	Aqueous	Toluene	8260B	18000		ug/L	36
029	02314 RW3	Aqueous	Xylenes (total)	8260B	9200		ug/L	36
030	02314 RW4	Aqueous	tert-Amyl alcohol (TAA)	8260B	32000		ug/L	37
030	02314 RW4	Aqueous	Benzene	8260B	11000		ug/L	37
030	02314 RW4	Aqueous	Ethanol	8260B	2500000		ug/L	37
030	02314 RW4	Aqueous	Ethylbenzene	8260B	3700		ug/L	37
030	02314 RW4	Aqueous	Naphthalene	8260B	520		ug/L	37
030	02314 RW4	Aqueous	Toluene	8260B	47000		ug/L	37
030	02314 RW4	Aqueous	Xylenes (total)	8260B	20000		ug/L	37
031	02314 RW5	Aqueous	tert-Amyl alcohol (TAA)	8260B	8700		ug/L	38
031	02314 RW5	Aqueous	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	Aqueous	Naphthalene	8260B	630		ug/L	38
031	02314 RW5	Aqueous	Toluene	8260B	31000		ug/L	38
031	02314 RW5	Aqueous	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	Aqueous	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	Toluene	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	Ethanol	8260B	2400000		ug/L	41
034	02314 RW4 dup	Aqueous	Ethylbenzene	8260B	5500		ug/L	41
034	02314 RW4 dup	Aqueous	Naphthalene	8260B	3100		ug/L	41
034	02314 RW4 dup	Aqueous	Toluene	8260B	49000		ug/L	41
034	02314 RW4 dup	Aqueous	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	P	ug/L	41

(142 detections)

Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-001**

Description: **02314 MW2R** Matrix: **Aqueous**

Date Sampled: **12/28/2018 1031**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	01/04/2019 0343	MNS		93999

Parameter	CAS Number	Analytical Method	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
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**670**		**100**	**40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1
Toluene	**108-88-3**	**8260B**	**15000**		**100**	**40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**13000**		**100**	**40**	**ug/L**	**1**

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Description: **02314 MW3**
Date Sampled: **12/27/2018 1852**
Date Received: **12/28/2018**

Laboratory ID: **TL28015-002**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	5	01/04/2019 2103	BWS		94063

Parameter	CAS 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	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/02/2019 1543	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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/02/2019 1554	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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-004**

Description: **02314 MW6** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1927**

Date Received: **12/28/2018**

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	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

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-005**

Description: **02314 MW7** Matrix: **Aqueous**

Date Sampled: **12/27/2018 2035**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

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	Prep 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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-006**

Description: **02314 MW8** Matrix: **Aqueous**

Date Sampled: **12/27/2018 2051**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	01/04/2019 0159	MNS		93999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**6000**		**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**	**900**		**20**	**8.0**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		20	8.0	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**17**	**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**	**8260B**	**390**		**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**	**42**		**20**	**8.0**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	160	ug/L	1
Toluene	**108-88-3**	**8260B**	**1900**		**20**	**8.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**5000**		**20**	**8.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance 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 1626	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		79	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-007**

Description: **02314 MW9** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1534**

Date Received: **12/28/2018**

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	Q	Run 1 % Recovery	Acceptance 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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-008**

Description: **02314 MW10** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1654**

Date Received: **12/28/2018**

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	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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-009**

Description: **02314 MW11** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1707**

Date Received: **12/28/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance 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	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

Surrogate	Q	Run 1 % Recovery	Acceptance 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
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-010**

Description: **02314 MW12** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1837**

Date Received: **12/28/2018**

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 0430	MNS		94009

Parameter	CAS Number	Analytical 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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		98	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 2013	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		67	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-011**

Description: **02314 MW13** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1730**

Date Received: **12/28/2018**

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
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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		96	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 2023	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Description: **02314 MW15**
Date Sampled: **12/27/2018 1939**
Date Received: **12/28/2018**

Laboratory ID: **TL28015-012**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 2034	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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-013**

Description: **02314 MW16** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1503**

Date Received: **12/28/2018**

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 0233	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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	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 2044	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		0.021	0.021	ug/L	1

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-014**

Description: **02314 MW17** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1519**

Date Received: **12/28/2018**

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

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		76	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-015**

Description: **02314 MW18** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1450**

Date Received: **12/28/2018**

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 0320	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	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 2106	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-016**

Description: **02314 MW20** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1628**

Date Received: **12/28/2018**

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 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 % Recovery	Acceptance 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		71	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-017**

Description: **02314 MW21** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1325**

Date Received: **12/28/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		96	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 2127	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

Surrogate	Q	Run 1 % Recovery	Acceptance 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

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-018**

Description: **02314 MW22** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1243**

Date Received: **12/28/2018**

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 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

Surrogate	Q	Run 1 % Recovery	Acceptance 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-019**

Description: **02314 MW23** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1513**

Date Received: **12/28/2018**

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 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 % 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 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

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-020**

Description: **02314 MW24** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1746**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	01/04/2019 1804	BWS		94063

Parameter	CAS Number	Analytical 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	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	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TL28015-021**
Description: **02314 MW25**
Matrix: **Aqueous**
Date Sampled: **12/27/2018 1524**
Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	01/04/2019 1826	BWS		94063

Parameter	CAS 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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		104	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 2210	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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-022**

Description: **02314 MW26** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1255**

Date Received: **12/28/2018**

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		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		102	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	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		81	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Laboratory ID: **TL28015-023**
Description: **02314 MW27**
Matrix: **Aqueous**
Date Sampled: **12/27/2018 1556**
Date Received: **12/28/2018**

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	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**1700**		**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**	**380**		**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**	**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**
tert-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**
Xylenes (total)	**1330-20-7**	**8260B**	**28**		**5.0**	**2.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	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 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		87	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-024**

Description: **02314 DW1** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1630**

Date Received: **12/28/2018**

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

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**	**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

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/03/2019 2242	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

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-025**

Description: **02314 DW2** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1356**

Date Received: **12/28/2018**

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	Batch
1	8011	8011	1	01/03/2019 2253	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-026**

Description: **02314 DW3** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1228**

Date Received: **12/28/2018**

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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		102	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 2303	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		0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		60	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-027**

Description: **02314 RW1** Matrix: **Aqueous**

Date Sampled: **12/28/2018 0946**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	01/04/2019 1910	BWS		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	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		101	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	5	01/04/2019 0308	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**	**2.8**		**0.097**	**0.097**	**ug/L**	**1**

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-028**

Description: **02314 RW2** Matrix: **Aqueous**

Date Sampled: **12/28/2018 1015**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

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**

Surrogate	Q	Run 1 % 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	Batch
1	8011	8011	1	01/03/2019 2357	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		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-029**

Description: **02314 RW3** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1815**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	01/04/2019 0539	MNS		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	ug/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	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**280**		**100**	**40**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	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	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/04/2019 0018	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		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-030**

Description: **02314 RW4** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1759**

Date Received: **12/28/2018**

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 0649	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**	**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**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	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	Batch
1	8011	8011	1	01/04/2019 0039	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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-031**

Description: **02314 RW5** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1700**

Date Received: **12/28/2018**

Volatile Organic Compounds by GC/MS

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	Prep 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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		75	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-032**
Description: **02314 SW1** Matrix: **Aqueous**
Date Sampled: **12/27/2018 0835**
Date Received: **12/28/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	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	Batch
1	8011	8011	1	01/04/2019 0100	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		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		75	57-137

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.**
Description: **02314 MW24 dup**
Date Sampled: **12/26/2018 1748**
Date Received: **12/28/2018**

Laboratory ID: **TL28015-033**
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 0516	MNS		94009

Parameter	CAS Number	Analytical 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 % Recovery	Acceptance 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

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

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-034**

Description: **02314 RW4 dup** Matrix: **Aqueous**

Date Sampled: **12/27/2018 1801**

Date Received: **12/28/2018**

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**

Surrogate	Q	Run 1 % Recovery	Acceptance 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 Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	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**

Surrogate	Q	Run 1 % Recovery	Acceptance 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
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-035**

Description: **02314 FB1** Matrix: **Aqueous**

Date Sampled: **12/26/2018 1200**

Date Received: **12/28/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		95	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	01/04/2019 0132	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		0.019	0.019	ug/L	1

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-036**

Description: **02314 FB2** Matrix: **Aqueous**

Date Sampled: **12/27/2018 0825**

Date Received: **12/28/2018**

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	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	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	01/04/2019 0143	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		0.019	0.019	ug/L	1

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.** Laboratory ID: **TL28015-037**

Description: **02314 FB3** Matrix: **Aqueous**

Date Sampled: **12/28/2018 0740**

Date Received: **12/28/2018**

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		94	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	01/04/2019 0154	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		0.019	0.019	ug/L	1

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

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Client: **Terry Environmental Services, Inc.**
Description: **02314 TB**
Date Sampled: **12/26/2018**
Date Received: **12/28/2018**

Laboratory ID: **TL28015-038**
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 0123	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	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
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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